

## SEQUENCE LISTING

<110> Xu, Jiangchun  
 Dillon, Davin C.  
 Mitcham, Jennifer L.  
 Harlocker, Susan L.  
 Jiang, Yuqui  
 Henderson, Robert A.  
 Kalos, Michael D.  
 Fanger, Gary R.  
 Retter, Marc W.  
 Stolk, John A.  
 Day, Craig H.  
 Vedvick, Thomas S.  
 Carter, Darrick  
 Li, Samuel  
 Wang, Aijun  
 Skeiky, Yasir A.W.  
 Hepler, William

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C23

<140> US

<141> 2001-01-12

<160> 934

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 1

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acggg	gctcgtttat	caccagtgag	gagcaggacg	tgagcccccg	ccctgcacct	360
gttaa	acaccccagc	catcccttct	ttcaaaagg	atccactagt	tctagaagcg	420
caccg	cggtggaagt	ccagcttttg	ttcccttttag	tgagggttaa	ttgcgcgctt	480
aatca	tggtcatagc	tgtttcctgt	gtgaaattgt	tatccgctca	caattccccc	540
acgag	ccggaacata	aagtgttaag	cctgggggtgc	ctaattgantg	agctaaactn	600
attgc	gttgcgctca	ctgcccctgt	tccagtcggg	aaaactgtcg	tgccactgcn	660
gaatc	ngccaccccc	cgggaaaagg	cggttgcntt	ttgggcctct	tccgctttcc	720
catctg	atcctngcnc	ccggtcttcg	gctgcggnga	acggttcaact	cctcaaaggc	780
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<210> 3
<211> 773
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(773)
<223> n = A,T,C or G
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tcctgtcctc	cactgggtgat	aaacgagccc	cgttccttgt	tgtgatcatg	atgaacaacc	120
tcctcaaaag	tcagaaccgg	agtcacacag	gcatctgtgc	cgtaaagat	ttgacaccac	180
tctgccttcg	tcttccttgc	aaatacatct	gcaaacttct	tcttcatttc	tggccaatca	240
tccatgctca	tctgattggg	aagttcatca	gactttagtc	canntccttt	gatcagcagc	300
tcgtagaact	ggggttctat	tgctccaaca	gccatgaatt	ccccatctgc	tgtcctgtaa	360
gtcgtataga	aaggtgtccc	accatccaac	atgttctgtc	ctcgaggggg	ggcccgggtac	420
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<211> 828
<212> DNA
<213> Homo sapien
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<220>  
<221> misc_feature  
<222> (1)...(828)  
<223> n = A,T,C or G
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<212> DNA
<213> Homo sapien
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<220>
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taggccataa	tcatatacag	tataaggaaa	aggtggtagt	gttgagtaag	cagttatttag	360
aatagaatac	cttggcctct	atgcaaatat	gtctagacac	tttgattcac	tcagccctga	420
cattcagttt	tcaaagtagg	agacaggttc	tacagtatca	ttttacagtt	tccaacacat	480
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tcaccaaccc	ctcagttata	aaaaattttc	aagttatat	agtcatataa	cttgggtgtc	600
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gatattggtc	attttttacca	gctttctaatt	ctnaactttc	aggcttttga	actggaacat	720
tgnatnacag	tgttccanag	ttncaaccta	ctggaacatt	acagtgtgct	tgattcaaaa	780

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834

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 <211> 818  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(818)  
 <223> n = A,T,C or G

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 tgtaaagtga aatattagtt ggcggatgaa gcagatagtg aggaaagttg agccaataat 180  
 gacgtgaagt ccgtggaagc ctgtggctac aaaaaatgtt gagccgtaga tgccgtcgga 240  
 aatggtgaag ggagactcga agtactctga ggcttgtagg agggtaaaat agagaccag 300  
 taaaattgta ataagcagtg cttgaattat ttggtttcgg ttgttttcta ttagactatg 360  
 gtgagctcag gtgattgata ctctgatgc gagtaatacg gatgtgttta ggagtgggac 420  
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 aggggctagg ctggagtggg aaaaggctca gaaaaatcct gcgaagaaaa aaacttctga 540  
 ggtaataaat aggattatcc cgtatogaag gccttttttg acagggtggtg tgtggtggcc 600  
 ttggtatgtg ctttctcgtg ttacatcgcg ccatcatttg tatatgggta gtgtgttggg 660  
 ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa 720  
 gtcattanga nggctnaaaa ggccctgtta ngggtctggg ctnggtttta cccnaccat 780  
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 <211> 817  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

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 ggtttgctcc acagatttca gagcattgac cgtagtatac ccccggtcgt gtagcgggta 180  
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 ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcggga 300  
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 gaagtatgta ggaattgaag attaatccgc cgtagtcggt gttctcctag gttcaatacc 420  
 attggtggcc aattgatttg atggtaaggg gagggatcgt tgaactcgtc tgttatgtaa 480  
 aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangatatt 540  
 tcaaacngtc tctanttcct gaaacgtctg aaatgttaat aanaattaan tttngttatt 600  
 gaatnttnng gaaaagggct tacaggacta gaaaccaaata angaaaanta atnntaangg 660  
 cnttatcntn aaaggtgnata accnctccta tnatcccacc caatngnatt cccacncnn 720  
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<210> 8  
 <211> 799  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(799)  
 <223> n = A,T,C or G

<400> 8

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ctccttacaa	ccacannatg	cccggctcct	cccggaaaacc	antcccancc	tgngaaggat	540
caagnccctgn	atccactnnt	notanaaccg	gccnccnccg	cngtggaacc	cnccttntgt	600
tccttttctnt	tnagggttaa	tnnccgcttg	gccttnccan	ngtcctncnc	nttttccnnt	660
gttnaaattg	ttangcnccc	nccnntccn	cnnccnnan	cccgaaccnn	annttnnann	720
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ctttccctct	nggganncg					799

<210> 9  
 <211> 801  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <222> (1)...(801)  
 <223> n = A,T,C or G

<400> 9

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caaggacaag	gccaccaggt	gcggggggccg	aagcccacat	gacccctact	ctatgagcaa	180
aatcccctgt	gggggcttct	ccttgaagtc	cgccancagg	gctcagtctt	tggacccang	240
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caccatccc	angacgcggc	tacactnctg	gacctcccnc	tccaccactt	tcatgcgctg	360
ttentacccg	cgnatntgtc	ccanctgttt	cngtgccnac	tccancttct	nggacgtgog	420
ctacatacgc	ccggantcnc	netcccgtt	tgteccctatc	cacgtncan	caacaaattt	480
cncctantg	caccnatccc	cacnttttnc	agntttccnc	nncngcttc	cttntaaaag	540
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gctgaantcc	ccatnaccnn	gnctcnatgg	ancntccnt	tttaannacn	ttctnaactt	660
gggaananc	ctcgnccntn	ccccctttaa	tccncccttg	cnangnnent	cccccnntcc	720
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<220>  
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 <223> n = A,T,C or G

<400> 12

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ttggctgt	tggtgacgt	gtcattgca	cagaatggg	gaaaggc	gttctctt	180
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agtggccn	aaaatctt	aaaaggat	cccatcn	gaccccc	atgccact	600
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 <212> DNA  
 <213> Homo sapien

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 <223> n = A,T,C or G

<400> 13

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gaagant	cac	ctactt	caaa	gaaaan	agtg	ccttt	cccc	atttct	gttg	caatt	gacaa		660
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 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(816)  
 <223> n = A,T,C or G

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caancttgtt	tggatncgaa	gcnataatct	ncntttctgc	ttggtggaca	gcaccantna	600
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cncnctccta	ccccagaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
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&lt;210&gt; 15

&lt;211&gt; 783

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(783)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 15

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aagacccaaa	ccagggtggaa	ctgtggggac	tcaaggaang	cacctacctg	ttccagctga	180
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ccaagcagac	agaagactac	tgcctcgcac	ccaacaangt	gggtcgctgc	cggggctctt	300
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ccctcccaac	aaagcttccc	tgttnaaaaa	tacnccantt	ggcttttnac	aaacncccgg	660
cncctccntt	ttcccnntn	aacaaagggc	ncnngcnttt	gaactgcccn	aaccnnggaa	720
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ccc						783

&lt;210&gt; 16

&lt;211&gt; 801

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(801)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 16



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cattgggcat	gtccagcagt	tctccaaaca	cgtagacacc	agnggcctcc	agcacctgat	360
ggatgagtgt	ggccagcgct	gcccccttgg	cgcacttggc	taggagcaga	aattgctcct	420
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aancttcgtc	nggcccattg	aattcaccnc	accggaactn	gtangatcca	ctnnttctat	660
aaccgngcgc	caccgcnnnt	ggaactccac	tcttnttnc	tttacttgag	ggttaaggtc	720
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&lt;210&gt; 19

&lt;211&gt; 731

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(731)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 19

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cntgacccca	actccccncc	ncncantgca	gtgatgagt	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaannc	tgtctcnntc	caagtcggcn	nagggggcgg	ggctggccac	240
gencatccnt	cnagtgtctn	aaagccccnn	cctgtctact	tgtttgaga	acngcnnga	300
catgccagn	gttanataac	nggcnagag	tnantttgcc	tctcccttcc	ggctgcgc	360
cgngtntgct	tagnggacat	aacctgacta	cttaactgaa	cccnngaate	tnccnccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtaccc	catncccaat	gtntgctnga	ngctctgncc	tgcnttangt	tcggctctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gtccctgna	acaancnacc	600
cnncnntcca	aggggggggnc	ggcccccaat	ccccccaacc	ntnaattnan	tttancccn	660
ccccngggcc	cggcctttta	cnancntcnn	nnacngggna	aaaccnnngc	tttncccaac	720
nnaatccncc	t					731

&lt;210&gt; 20

&lt;211&gt; 754

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(754)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 20

tttttttttt	tttttttttt	taaaaacccc	ctccattnaa	tgnaaacttc	cgaaattgtc	60
caacccccctc	ntccaaatnn	ccntttccgg	gnggggggttc	caaacccean	ttanntttgg	120
annttaaatt	aaatnttnt	tggnggnna	ancnaatgt	nangaaagtt	naaccanta	180
tnancntnaa	tncttgaaa	ccngtngntt	ccaaaaatnt	ttaaccctta	antccctcgg	240
aaatngttna	nggaaaaccc	aantttctnt	aaggttggtt	gaaggntnaa	tnaaaaancc	300
nnccaattgt	tttngccac	gcctgaatta	attggnnttc	gntgttttcc	nttaaaanaa	360

ggnnancccc	ggttantnaa	tccccccnnc	cccaattata	ccganttttt	ttngaattgg	420
gancccnccg	gaattaacgg	ggnnnnntccc	tnttgggggg	cnggnncccc	ccccntcggg	480
ggttngggnc	aggncnnaat	tgtttaaggg	tccgaaaaat	ccctccnaga	aaaaaanctc	540
ccaggntgag	nnnggggttt	nncccccccc	cangggccct	ctcganaggt	tgggggtttg	600
ggggcctggg	attttntttc	ccctntttnc	tccccccccc	ccnggganag	aggttngngt	660
tttgntcnnc	ggccccnccn	aaganctttt	ccganttnan	ttaaatecnt	gcctnggcga	720
agtcctttgn	aggntaaan	ggccccctnn	cggg			754

<210> 21  
 <211> 755  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(755)  
 <223> n = A,T,C or G

<400> 21						
atcancccat	gacccnaac	nngggaccnc	tcancgggnc	nnncnaccnc	cgggcnatca	60
nnngtnagnnc	actncnnttn	natcacnccc	cncnactac	gcccncnanc	cnacgcnccta	120
nncanatncc	actganngcg	cgangtngan	ngagaaanct	nataccanag	ncaccanacn	180
ccagctgtcc	nanaangcct	nnnatacngg	nnnatccaat	ntgnancctc	cnaagtattt	240
nncnncanac	gattttcctn	anccgattac	ccntncccc	tanccctcc	cccccaacna	300
cgaaggcnct	ggncnnaagg	nngcgnccnc	ccgctagntc	cccnncaaagt	cnncnnccta	360
aactcanccn	nattacnccg	ttcntgagta	tactccccg	aatctcacc	tactcaactc	420
aaaaanatch	gatacaaaat	aatncaagcc	tgnttatnac	actntgactg	ggtctctatt	480
ttagnngtcc	ntnaancntc	ctaatacttc	cagtctncc	tcnccaattt	ccnaanggct	540
ctttcngaca	gcantttttg	gttcccnnnt	gggttccttan	ngaattgcc	ttcntngaac	600
gggtcctctc	tttccctcgg	ttancctggg	ttcnccgggc	cagttattat	ttccntttt	660
aaattcntnc	cntttanttt	tggcnttcna	aacccccggc	cttgaaaaag	gccccctggt	720
aaaagggtgt	tttganaaaa	tttttgtttt	gttcc			755

<210> 22  
 <211> 849  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(849)  
 <223> n = A,T,C or G

<400> 22						
tttttttttt	tttttangtg	tngtcgtgca	ggtagaggct	tactacaant	gtgaanacgt	60
acgctnngan	taangcgacc	cgantttctag	ganncnccct	aaaatcanac	tgtgaagatn	120
atcctgnna	cggaanggtc	accggnggat	nntgctaggg	tgncnctcc	cannncnttn	180
cataactcng	nggccctgcc	caccaccttc	ggcgcccnng	ngnccgggce	cggttcattt	240
gnnttaaccn	cactnngcna	ncggtttccn	nncccnncng	accnnggoga	tccggggtnc	300
tctgtcttcc	cctgnagncn	anaaantggg	ccnccggccc	ctttaccct	nnacaagcca	360
cngccttcta	ncnccngccc	ccccctcant	nngggggact	gcnannngct	ccgttncntg	420
nnaccccnnn	gggtncctcg	gttgctcgant	cnaccgnang	ccanggattc	cnaaggaagg	480
tgcgttnttg	gcccctaccc	ttcgtncggg	nnccaccttc	ccgacnanga	nccgctccc	540
cncnccngng	cctcncctcg	caacacccgc	ncntcntngt	ncggnnnccc	ccccacccgc	600

nccctcnenc	ngnecgnannc	ctccnccncc	gtctcannca	ccaccccgcc	cgcgcaggcc	660
ntcanccaacn	ggnggacnng	nagencnntc	gcnccgcgcg	gcgnccccct	cgccnngaa	720
ctnctcngg	ccantnncgc	tcaanccnna	cnaaacgcgc	ctgcgcggcc	cgnagcgncc	780
ncctccnaga	gtccctccgn	cttccnacc	angnnttcn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23  
 <211> 872  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(872)  
 <223> n = A,T,C or G

<400> 23						
gcgcaaaacta	tacttcgctc	gnactcgtgc	gcctcgtcnc	tcttttctct	cgcaaccatg	60
tctgacnanc	ccgattnggc	ngatatcnan	aagntcganc	agtccaaact	gantaacaca	120
cacacnncan	aganaaatcc	nctgccttcc	anagtanacn	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcgcgcgca	atntgtcncc	gtttattntn	ccagcncnc	240
ctnccnacc	tacntcttcn	nagctgtcnn	accctngtn	cgnaccccc	naggtcggga	300
tcgggtttnn	nntgaccgng	cnnccctcc	cccttccat	nacganccnc	ccgcaccacc	360
nanngcncgc	nccccgnnct	cttcgcncnc	ctgtcctntn	cccctgtngc	ctggcncngn	420
accgcattga	ccctcgccnn	ctnccnngaaa	ncgnanacgt	cggggttggn	annancgctg	480
tgggnnngcg	tctgcncgc	gttccttcn	nonncttcca	ccatcttct	tacngggtct	540
ccnccgcntc	tcnnncaenc	cctgggacgc	tnctcctnng	cccccttnac	tccccctt	600
cgnccgtgnc	cgncccccacc	ntcatttnca	nacgntcttc	acaannncc	ggntnnctcc	660
cnancngnnc	gtcanccnag	ggaagggngg	ggnnccnntg	nttgacgttg	nggngangtc	720
cgaanantcc	tcnccntcan	cncctaccct	cgggcgnnct	ctcngttnc	aacttancaa	780
ntctcccccg	ngngcncntc	tcagcctcnc	cnccccnc	ctctgcantg	tnctctgctc	840
tnaccnntac	gantnttcgn	cncctcttt	cc			872

<210> 24  
 <211> 815  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(815)  
 <223> n = A,T,C or G

<400> 24						
gcatgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catggtcnta	60
nctgncttcc	tgtgtcaaat	gtatacnaa	tanatatgaa	tctnatntga	caaganngta	120
tcntncatta	gtaacaantg	tnntgtccat	cctgtongan	canattccca	tnnattnccn	180
cgcattcnnc	gncantatn	taatngggaa	ntcnntnnn	ncaccnncat	ctatcncnc	240
gcnccctgac	tggnagagat	ggatnanttc	tnntntgacc	nacatgttca	tcttggtatn	300
aanancccc	cgcngnccac	cggttngnng	cnagccnntc	ccaagacctc	ctgtggaggt	360
aacctgcgtc	aganncatca	aacntgggaa	accgcnncc	angtnnaagt	ngnnncanan	420
gateccgtcc	aggnttnacc	atcccttcnc	agcgcacct	ttngtgcctt	anagnnagc	480
gtgtccnanc	cncctaacat	ganacgcgcc	agnccanccg	caattnggca	caatgtcgnc	540
gaaccccta	gggggantna	tncaaanccc	caggattgtc	cncncangaa	atcccnanc	600



ccnccctac	ccncttttgg	gacngtgacc	aantcccgga	gtncagtc	ggcngnctc	660
ccccaccgt	nnccntgggg	gggtgaanct	cngnntcanc	cngncgaggn	ntcgnaagga	720
accggnccn	ggncgaanng	ancnntcnga	agngccnct	cgtataacc	cccctcncca	780
ncnncngnt	agntcccccc	cngggtnccg	aangg			815

<210> 25  
 <211> 775  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(775)  
 <223> n = A,T,C or G

<400> 25						
ccgagatgtc	tcgctccgtg	gccttagctg	tgtctgcgct	actctctctt	tctggcctgg	60
aggctatcca	gcgtactcca	aagattcagg	tttactcacg	tcattccagca	gagaatggaa	120
agtcaaattt	cctgaattgc	tatgtgtctg	ggtttcatcc	atccgacatt	gaanttgcct	180
tactgaagaa	tgganagaga	attgaaaaag	tgagcatttc	agacttgtct	ttcagcaagg	240
actggtcttt	ctatctcntg	tactacactg	aattcacccc	cactgaaaaa	gatgagtatg	300
cctgccgtgt	gaaccatgtg	actttgtcac	agcccaagat	agttaagtgg	gatcgagaca	360
tgtaagcagn	cnncatggaa	gtttgaagat	gcgcgatttg	gattggatga	attccaaatt	420
ctgcttgctt	gcnttttaaat	antgatatgc	ntatacaccc	taccctttat	gncccccatt	480
tgtaggggtt	acatnantgt	tcnctnngga	catgatcttc	ctttataant	ccnccnttcg	540
aattgcccgt	cncccnngtn	ngaattgttc	cnnaaccacg	gttggtctcc	ccaggtcncc	600
tcttacggaa	gggcctgggc	cnctttncaa	ggttggggga	accnaaaatt	tcnctntncc	660
ccncccncca	cnntcttngn	nnccnctttt	ggaacccttc	cnattcccct	tgccctcnna	720
nccttnncta	anaaaacttn	aaancgtngc	naaanntttt	acttcccccc	ttacc	775

<210> 26  
 <211> 820  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(820)  
 <223> n = A,T,C or G

<400> 26						
anattantac	agtgtaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttanca	acagtgtctt	gaccaagagc	tgctgggcac	atttcctgca	120
gaaaagggtg	cgttcccat	cactctctct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcggtggga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcgggag	cgagcctctt	ccctgnaccg	gggtggcana	nganagccta	300
nctgaggggt	cacactataa	acgttaacga	ccnagatnan	cacctgcttc	aagtgcaccc	360
ttcctacctg	acnaccagng	accnnnaact	gcngcctggg	gacagcnctg	ggancagcta	420
acnnagcact	cacctgcccc	cccatggccg	tcngcntccc	tggtcctgnc	aagggaagct	480
ccctgttgga	attncgggga	naccaaggga	ccccctcct	ccanctgtga	aggaaaaann	540
gatggaattt	tncccttccg	gccnntcccc	tcttctctta	cacgccccct	nnctactctc	600
tccctctntt	ntcctgncnc	acttttnacc	ccnnnatctt	ccttnattga	tcggannctn	660
ganattccac	tnncgcctnc	cntcnatcng	naanaacnaa	naactntctna	ccnggggat	720
gggnncctcg	ntcatcctct	ctttttcnct	accnccnntt	ctttgcctct	ccttngatca	780

tccaacntc gntggcntn ccccccnnn tcctttncce

820

<210> 27  
 <211> 818  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(818)  
 <223> n = A,T,C or G

<400> 27  
 tctgggtgat ggcctcttcc tcctcaggga cctctgactg ctctgggcca aagaatctct 60  
 tgtttcttct ccgagcccca ggcagcgggtg attcagccct gcccaacctg attctgatga 120  
 ctgcggtatgc tgtgacggac ccaaggggca aatagggtcc cagggtccag ggaggggccc 180  
 ctgctgagca ctcccgcccc tcaccctgcc cagccctgc catgagctct gggctgggtc 240  
 tccgectcca gggttctgtc ctccangca ngccancaag tggcgtggg ccacactggc 300  
 ttcttctctg ccctccctg gctctganc tctgtcttcc tgtcctgtgc angenccttg 360  
 gatctcagtt tccctcnctc anngaactct gtttctgann tottcantta actntgantt 420  
 tatnaccnan tggncgtgnc tgtcnnactt taatgggcn gaccggctaa tccctccctc 480  
 nctcccttcc anttcnnnna accngcttnc cntctctcc cntancccg ccngggaanc 540  
 ctcttttgcc ctncaccang gccnnnaccg cccntnnctn ggggggcnng gtnnctnenc 600  
 ctgntnnccc cnetcnctt tncctcgtcc cnnncnccn nngcannttc nengtcccn 660  
 tnnctcttcn ngntcgnaa ngntcnctn tnnnnngcn ngntnntcn tccctctenc 720  
 cnnntgnang tnnntnnnc ncngnncccc nnnncnnnn nggnntnnn tctnncngc 780  
 cccnncccc ngnattaagg cctcnnctc ccggccnc 818

<210> 28  
 <211> 731  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(731)  
 <223> n = A,T,C or G

<400> 28  
 aggaagggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg 60  
 tccaacatg anggtgnngt tctcttttga angagggttg ngtttttann ccnggtgggt 120  
 gattnaacc cttgtatgg agnnaaagg ttttagggat ttttcggtc ttatcagtat 180  
 ntanattcct gtnaatcgga aaatnatnt tcnncnggaa aatnttgetc ccatccgnaa 240  
 attnctccc ggtagtcat nttngggggn cngccangtt tcccaggtc ctanaatcgt 300  
 actaaagnt naagtgggan tncaaataa aacctnnac agagnatccn taccgactg 360  
 tnnnttncct tcgcccctng actctgcnng agcccaatac ccngngnat gtcnccngn 420  
 nnnngcncnc tgaaannnnc tcgnggctnn gancatcang gggtttcgca tcaaagcnn 480  
 cgtttcncat naaggcact tngcctcat caaccnctng ccctcncca tttngcgtc 540  
 nggttncct acgctnnng cncctnnntn ganattttnc ccgcctnggg naancctcct 600  
 gnaatggga gggccttntc ttttnaccn gnggntact aatcnnctnc acgctnctt 660  
 tctnaccce ccccttttt caatcccanc ggcnaatggg gtctccccn cgangggggg 720  
 nnnccann c 731

<210> 29

<211> 822  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(822)  
 <223> n = A,T,C or G

<400> 29

actagtccag	tgtggtggaa	ttccattgtg	ttggggncnc	ttctatgant	antnttagat	60
cgctcanacc	tcacancctc	ccnacnangc	ctataangaa	nannaataga	nctgtncnnt	120
atntntacnc	tcatanncct	cnnnaccac	tccctcttaa	cccctactgt	gcctatngcn	180
tnnctantct	ntgccgcctn	cnanccaccn	gtggggccnac	cncnngnatt	ctcnatctcc	240
tcnccatntn	gcctananta	ngtncatacc	ctatacctac	nccaatgcta	nnnctaancn	300
tccatnantt	annntaacta	ccactgaant	ngactttcnc	atnanctcct	aatttgaatc	360
tactctgact	cccacngcct	annnattage	ancntcccc	nacnatntct	caaccaaadc	420
ntcaacaacc	tatctanctg	ttcnccaacc	nttncctcgc	atccccnnac	aacccccctc	480
ccaaataccc	nccacctgac	ncctaaccn	caccatcccg	gcaagccnan	ggncatttan	540
ccactggaat	cacnatngga	naaaaaaac	ccnaactctc	tancncnnat	ctccctaana	600
aatnctcctn	naatttactn	ncantnccat	caancccaacn	tgaaacnnaa	cccctgtttt	660
tanatccctt	ctttcgaaaa	ccnacccttt	annncecaac	ctttngggcc	cccccnctnc	720
ccnaatgaag	gncncccaat	cnangaaacg	nccntgaaaa	ancnaggcna	anannntccg	780
canatcctat	cccttanttn	gggggnccctt	ncnnggggcc	cc		822

<210> 30  
 <211> 787  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(787)  
 <223> n = A,T,C or G

<400> 30

cggccgcctg	ctctggcaca	tgcctcctga	atggcatcaa	aagtgatgga	ctgcccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctcccctt	120
gtctgcagga	tttgatgtct	gaagtcgtgg	agtgtggett	ggagctcctc	atctacatna	180
gctggaagcc	ctggaggggc	tctctcgcca	gcctccccct	tctctccaag	ctctccangg	240
acaccagggg	ctccaggcag	cccattattc	ccagnangac	atgggtgttc	tccacgcgga	300
cccatggggc	ctgnaaggcc	agggctcctt	ttgacaccat	ctctcccgtc	ctgcctggca	360
ggccgtggga	tccactantt	ctanaacggg	cgccaccncc	gtgggagctc	cagcttttgt	420
tcccnttaat	gaaggttaat	tgcncgcttg	gcgtaatcat	nggtcanaac	tntttcctgt	480
gtgaaattgt	ttntcccctc	ncnattccnc	ncnacatacn	aaccgggaan	cataaagtgt	540
taaagcctgg	gggtngcctn	nngaataaac	tnaactcaat	taattgcgtt	ggctcatggc	600
ccgctttccn	ttcnggaaaa	ctgtcntccc	ctgcnttntt	gaatcgccca	cccccnnggg	660
aaaagcggtt	tgcnttttng	ggggntcctt	ccncttcccc	cctcnctaan	ccctnccgct	720
cggtcgttnc	nggtngcggg	gaangggnat	nnnctccncc	naagggggng	agnnnngtat	780
ccccaaa						787

<210> 31  
 <211> 799  
 <212> DNA



<220>  
 <221> misc\_feature  
 <222> (1)...(793)  
 <223> n = A,T,C or G

<400> 33

gacagaacat	ggttgatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggttgagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtattt	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttggtcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctgtt	aaacacccca	gccatccctt	ctttcaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaatttt	aaagcctggn	ggtngcctaa	tgantgaact	600
nactcacatt	aattggcttt	gcgctcactg	cccgccttcc	agtccggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcncttccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgcggcna	780
acggtatcna	cct					793

<210> 34  
 <211> 756  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(756)  
 <223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtgga	accgtaaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccggtga	catactggag	180
atcgggggccc	aatggagcat	cctacgcaan	gacatcccct	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttcctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tggaaggcag	ctaccncaaa	gtnttcctgg	ccnagggtaa	480
catccccccg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgng	ggttgctcca	gaaaggctnc	aanaanatcc	ttttcnctga	aggcccccg	600
atncnctagt	nctagaatcg	gcccgccatc	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnatggcg	cccttggcgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgcna	cattng			756

<210> 35  
 <211> 834  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(834)

<400> 35

ggggatctct	anacnacct	gnatgcatgg	ttgtcggtgt	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cncctttggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cgggtgaactc	gatgacnang	ggcagctggt	tgtgtntgat	240
aaantccanc	angttctcct	tggtgacctc	cccttcaaag	ttgttcgggc	cttcatacaa	300
cttctnnaan	angannancc	cancctttgtc	gagctggnat	ttgganaaca	cgtaactggt	360
ggaaactgat	cccaaagtgt	atgtcatcca	tcgcctctgc	tgccctgcaa	aaacttgctt	420
ggcncaaatc	cgactcccn	tccttgaaaag	aagccnatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	cccntccnng	cagggttggt	ggcannccgg	gccntgggc	540
ttcttcagcc	agttcaacna	nttcatacgc	ccctctgcc	gctgtntat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaaact	ttgaccgtng	gaatagccgc	gcntcnccnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgncnntcn	cctcgggcc	ttctggattt	720
ncnaactttt	ttccttcccc	cncctccnccg	ngtttggnnt	tttcatnggg	ccccaaactct	780
gctnttggcc	antcccttgg	gggentntan	cncctccnt	ggtcccntng	ggcc	834

<213> Homo sapien

$\langle 223 \rangle$  n = A, T, C or G

<400> 36

cggncgcttt	cngcgcgcgc	cccgtttcca	tgacnaaggc	tcccttcang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgctctacta	atacatcata	cnaaccagta	agcctgccca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggc	tggtctctcc	acccctgta	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanagggttt	gttctcatgg	ctgccaccg	cagcctggca	300
ctaaaacanc	ccagcgctca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcaactgc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	nettagtctc	caaaagtctc	ngcccacaag	accggccacc	480
aggggangtc	ntttncagtg	gatctgccaa	anantaccn	tatcatcnnt	gaataaaaaag	540
gccctgaac	ganatgcttc	cancancctt	taagaccat	aatcctngaa	ccatggtgcc	600
cttccggtct	gatacnaaag	gaantgtcct	gggtccant	ccctcctttg	tncttactgt	660
tgtnttggac	cctgctngn	atnaccnaan	tganaatccc	ngaagcacc	tnccctggc	720
atttganttt	cntaaattct	ctgccctacn	nctgaaagca	cnattccctn	ggcnccnaan	780
qngnaactca	agaaggctctn	ngaaaaacca	cncn			814

<213> Homo sapien

$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

&lt;400&gt; 37

gcatgctgct	cttctcaaaa	gttggttcttg	ttgccataac	aaccaccata	ggtaaagcgg	60
gogcagtgtt	cgctgaaggg	gttgtagtac	cagcgcgagg	tgctctcctt	gcagagtcct	120
gtgtctggca	ggccacgca	atgccctttg	tactgggga	aatggatgcg	ctggagctcg	180
tcnaanccac	togtgtat	ttcacangca	gcctcctccg	aagcntccgg	gcagttgggg	240
gtgtcgtcac	actccactaa	actgtcgatn	cancagccca	ttgctgcagc	ggaactgggt	300
gggctgacag	gtgccagaac	acactggatn	ggcctttcca	tggaagggcc	tggggggaaat	360
cncctnancc	caaactgcct	ctcaaaggcc	accttgacac	ccccgacagg	ctagaaatgc	420
actcttcttc	ccaaaggtag	ttgttcttgt	tgcccaagca	ncctccanca	aacaaaaanc	480
ttgcaaaatc	tgctccgtgg	gggtcatnnn	taccanggtt	ggggaaanaa	acccggcngn	540
ganccncctt	gtttgaatgc	naaggnaata	atcctcctgt	cttgcttggg	tggaanagca	600
caattgaact	gttaacnttg	ggccnggttc	cncnnggtg	gtctgaaact	aatcacgcgc	660
actggaaaaa	ggtangtgcc	ttccttgaat	tcccaaat	cccctngntt	tggtntttt	720
ctcctctncc	ctaaaaatcg	tnttcccccc	ccntanggcg			760

&lt;210&gt; 38

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(724)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 38

tttttttttt	tttttttttt	tttttttttt	tttttaaaaa	ccccctccat	tgaatgaaaa	60
cttcnnaaat	tgtccaaccc	cctcnnccaa	atnnccattt	ccgggggggg	gttccaaacc	120
caaattaatt	ttgganttta	aattaaatnt	tnattngggg	aanaanccaa	atgtnaagaa	180
aatttaaccc	attatnaact	taaatnccn	gaaacccttg	gnttccaaaa	atttttaacc	240
cttaaatccc	tccgaaattg	ntaanggaaa	accaaattcn	cctaaggctn	tttgaagggt	300
ngatttaaac	ccccttnant	tnttttnacc	cnngnctnaa	ntatttngnt	tccggtgttt	360
tcctnttaan	cntnggtaac	tcccngtaat	gaannncctt	aanccaatta	aaccgaattt	420
tttttgaatt	ggaaattccn	ngggaattna	ccgggggttt	tcccttttgg	gggccatncc	480
cccnctttcg	gggtttgggn	ntaggttgaa	tttttnnang	ncccaaaaaa	nccccaana	540
aaaaaactcc	caagnnttaa	ttngaantnc	cccttcccca	ggccttttgg	gaaaggnggg	600
ttntggggg	ccngggantt	cnttcccccn	ttncncccc	ccccccnggt	aaanggttat	660
ngnntttggt	ttttggggccc	cttnanggac	cttcgggatn	gaaattaaat	ccccggngcg	720
gccg						724

&lt;210&gt; 39

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(751)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 39

tttttttttt	tttttctttg	ctcacattta	atttttat	tgattttttt	taatgctgca	60
caacacaata	tttatttcat	ttgtttcttt	tatttcat	tatttgtttg	ctgctgctgt	120
tttatttatt	tttactgaaa	gtgagagggg	acttttgtg	ccttttttcc	tttttctgta	180

```

ggccgcctta agcttttctaa atttggaaca tctaagcaag ctgaanggaa aaggggggttt 240
cgcaaaatca ctcggggggaa nggaaagggtt gctttgttaa tcatgcccta tgggtgggtga 300
ttaactgctt gtacaattac ntttcacttt taattaattg tgctnaangc ttttaattana 360
cttgggggtt cctcccccac accaaccctt ctgacaaaaa gtgccngccc tcaaatnatg 420
tcccggcnnt cnttgaaaca cacngcngaa ngttctcatt ntcccccnc caggtnaaaa 480
tgaagggtta ccatntttta cncacctcc acntggcnnn gcctgaatcc tcnaaaannc 540
ccctcaannc aattnctnng ccccggtcnc gcntnngtcc cccccgggt ccgggaantn 600
cacccccnga annnntnnc naacnaaatt ccgaaaatat tcccnntcnc tcaattcccc 660
cnnagactnt cctcnncnan cncaattttc tttntntcac gaacncgnc cnnaaatgn 720
nnnncnctc cncnngtcn naatcnccan c 751

```

<210> 40

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 40

```

gtggtatttt ctgtaagatc aggtgttctt cctcgttagg tttagaggaa acaccctcat 60
agatgaaaac ccccccgaga cagcagcact gcaactgcc aagcagccggg gtaggagggg 120
cgccctatgc acagctgggc ccttgagaca gcagggttc gatgtcaggc tcgatgtcaa 180
tgggtctgaa gcggcggtctg tacctgcgta ggggcacacc gtcagggccc accaggaact 240
tctcaaagtt ccaggcaacn tcgttgcgac acaccggaga ccagggtgatn agcttggggg 300
cggtcataan cgcggtggcg tcgtcgtctg gagctggcag ggcctcccgc aggaaggcna 360
ataaaagggt cgcccccgca cgttccant cgcacttctc naanaccatg angttgggt 420
cnaaccacc accannccgg acttccntga nggaattccc aaatctctc gntcttgggc 480
ttctnctgat gccctanctg gttgcccngn atgccaanca nccccaancc ccgggggtcct 540
aaanccaccn cctcctcntt tcatctgggt tntntcccc ggacntgggt tctctcaag 600
ggancccata tctcnaccan tactcacnt nccccccnt gnnaccanc cttctanngn 660
ttccncccg ncctctggcc cntcaaan an gttncacna cctgggtctg ccttcccccc 720
tnccctatct gnaccccn n tttgtctcan tnt 753

```

<210> 41

<211> 341

<212> DNA

<213> Homo sapien

<400> 41

```

actatatcca tcacaacaga catgcttcat cccatagact tcttgacata gcttcaaagt 60
agtgaacca tcttgattt atatacatat atgttctcag tattttggga gcctttccac 120
ttctttaaac cttgttcatt atgaacactg aaaataggaa tttgtgaaga gttaaaaagt 180
tatagcttgt ttacgtagta agtttttgaa gtctacattc aatccagaca cttagttgag 240
tggttaaactg tgatttttaa aaaatatcat ttgagaatat tctttcagag gtattttcat 300
ttttactttt tgattaattg tgttttatat attagggtag t 341

```

<210> 42

<211> 101

<212> DNA

<213> Homo sapien



```
<210> 43
<211> 305
<212> DNA
<213> Homo sapien
```

```
<210> 44
<211> 852
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(852)
<223> n = A,T,C or G
```

```
<210> 45
<211> 234
<212> DNA
<213> Homo sapien
```

<400> 45						
acaacagacc	cttgctcgct	aacgacctca	tgctcatcaa	gttggacgaa	tccgtgtccg	60
agtctgacac	catccggagc	atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	120
gcctcgtttc	tggtcggggt	ctgcgtggcg	acggcagaat	gcctaccgtg	ctgcagtgcg	180
tgaacgtgtc	qgtggtgtct	gaggaggtct	gcagtaagct	ctatgacccg	ctgt	234

$\langle 220 \rangle$

<400> 48

```
<210> 49
<211> 147
<212> DNA
<213> Homo sapien
```

<400> 49

```
<210> 50
<211> 107
<212> DNA
<213> Homo sapien
```

<400> 50

```
<210> 51
<211> 204
<212> DNA
<213> Homo sapien
```

<400> 51

```
<210> 52
<211> 491
<212> DNA
<213> Homo sapien
```

<220>

```
<221> misc_feature
<222> (1)...(491)
<223> n = A,T,C or G
```

<212> DNA

<213> Homo sapien

<400> 56

ggcggatgtg	cgttggttat	atacaaatat	gtcattttat	gtaagggact	tgagtatact	60
tggaattttg	gtatctgtgg	gttgggggga	cggtccagga	accaataccc	catggatacc	120
aagggacaac	tgt					133

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(147)

<223> n = A,T,C or G

<400> 57

actctggaga	acctgagccg	ctgctccgcc	tctgggatga	ggtgatgcan	gcngtggcgc	60
gactgggagc	tgagcccttc	cctttgcgcc	tgccctcagag	gattgttgcc	gacntgcana	120
tctcantggg	ctggatncat	gcagggt				147

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(198)

<223> n = A,T,C or G

<400> 58

acagggatat	aggtttnaag	ttattgtnat	tgtaaaatac	attgaatttt	ctgtatactc	60
tgattacata	catttatcct	ttaaaaaaga	tgtaaactct	aatttttatg	ccatctatta	120
attaccaat	gagttacctt	gtaaatgaga	agtcgatgata	gcactgaatt	ttaactagtt	180
ttgacttcta	agtttggt					198

<210> 59

<211> 330

<212> DNA

<213> Homo sapien

<400> 59

acaacaaatg	ggttgtgagg	aagtcttatc	agcaaaactg	gtgatggcta	ctgaaaagat	60
ccattgaaaa	ttatcattaa	tgatttttaa	tgacaagtta	tcaaaaactc	actcaatttt	120
cacctgtgct	agcttgctaa	aatgggagtt	aactctagag	caaatatagt	atcttctgaa	180
tacagtcaat	aaatgacaaa	gccagggcct	acagggtggt	tccagacttt	ccagaccag	240
cagaaggaat	ctattttatc	acatggatct	ccgtctgtgc	tcaaaatacc	taatgatatt	300
tttcgtcttt	attggacttc	tttgaagagt				330

<210> 60

<211> 175

<212> DNA



acaacaanaa	ntcccttctt	taggccactg	atggaaacct	ggaaccccct	tttgatggca	60
gcatggcgctc	ctaggccttg	acacagcggc	tggggtttgg	gctntcccaa	accgcacacc	120
ccaaccctgg	tctaccacaca	nttctggcta	tgggctgtct	ctgccactga	acatcagggg	180
tcggtcataa	natgaaatcc	caanggggac	agaggtcagt	agaggaagct	caatgagaaa	240
ggtgctgttt	gctcagccag	aaaacagctg	cctggcattc	gccgctgaac	tatgaacccg	300
tgggggtgaa	ctacccccc	gaggaatcat	gcctgggcga	tgcaanggtg	ccaacaggag	360
gggcgggagg	agcatgt					377

<210> 66  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 66						
acgcctttcc	ctcagaattc	aggggaagaga	ctgtgcgctg	ccttcctcgc	ttgttgcggtg	60
agaacccgtg	tgccccttcc	caccatatcc	accctcgctc	catctttgaa	ctcaaacacg	120
aggaactaac	tgaccctgg	tcctctcccc	agtccccagt	tcaccctcca	tcctcacct	180
tcctccactc	taagggatat	caacactgcc	cagcacaggg	gccctgaatt	tatgtgggtt	240
ttatatattt	tttaataaga	tgcactttat	gtcatttttt	aataaagtct	gaagaattac	300
tgttt						305

<210> 67  
 <211> 385  
 <212> DNA  
 <213> Homo sapien

<400> 67						
actacacaca	ctccacttgc	ccttgtgaga	cactttgtcc	cagcacttta	ggaatgctga	60
ggtcggacca	gccacatctc	atgtgcaaga	ttgccagca	gacatcaggt	ctgagagttc	120
ccctttttaa	aaaggggact	tgcttaaaaa	agaagtctag	ccacgattgt	gtagagcagc	180
tgtgctgtgc	tggagattca	cttttgagag	agttctcctc	tgagacctga	tcttttagagg	240
ctgggcagtc	ttgcacatga	gatggggctg	gtctgatctc	agcactcctt	agtctgcttg	300
cctctcccag	ggccccagcc	tgccacaccc	tgcttacagg	gcactctcag	atgccatac	360
catagtttct	gtgctagtgg	accgt				385

<210> 68  
 <211> 73  
 <212> DNA  
 <213> Homo sapien

<400> 68						
acttaaccag	atatattttt	accccagatg	gggatattct	ttgtaaaaaa	tgaaaataaa	60
gtttttttta	tgg					73

<210> 69  
 <211> 536  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(536)  
 <223> n = A,T,C or G

&lt;400&gt; 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcaccctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tggccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccgggtggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgctg	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgctc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggacacc	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtcctt	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

&lt;210&gt; 70

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 70

atgacccta	acaggggccc	tctcagccct	cctaatagacc	tccggcctag	ccatgtgatt	60
tcacttccac	tccataacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atttattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atccoctaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcacacagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

&lt;210&gt; 71

&lt;211&gt; 533

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(533)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattgggtta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attatttcca	taacttaaaa	agtgagtgtt	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaataggtgt	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacaac	agtatataag	gctgtaaaaa	gaagaattct	gcc	533

&lt;210&gt; 72

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature



<222> (1)...(511)  
 <223> n = A,T,C or G

<400> 72  
 tattacggaa aaacacacca cataattcaa ctancaaaga anactgcttc agggcgtgta 60  
 aaatgaaagg cttccaggca gttatctgat taaagaacac taaaagaggg acaaggctaa 120  
 aagccgcagg atgtctacac tatancaggc gctatttggg ttggctggag gagctgtgga 180  
 aaacatggan agattggtgc tgganatcgc cgtggctatt cctcattgtt attacanagt 240  
 gaggttctct gtgtgcccac tggtttgaaa accgttctnc aataatgata gaatagtaca 300  
 cacatgagaa ctgaaatggc ccaaaccag aaagaaagcc caactagatc ctcagaanac 360  
 gcttctaggg acaataaccg atgaagaaaa gatggcctcc ttgtgcccc gtctgttatg 420  
 atttctctcc attgcagcna naaaccggtt cttctaagca aacncaggtg atgatggcna 480  
 aaatacaccc cctcttgaag naccnggagg a 511

<210> 73  
 <211> 499  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(499)  
 <223> n = A,T,C or G

<400> 73  
 cagtgcagc actggtgccca gtaccagtag caataacagt gccagtgccca gtgccagcac 60  
 cagtggtagg ttacagtgtg gtgccagcct gaccgccact ctcacatttg ggctcttcgc 120  
 tggccttggg ggagctgggt ccagcaccag tggcagctct ggtgcctgtg gtttctccta 180  
 caagtgagat tttagatatt gttaatcctg ccagtccttc tcttcaagcc aggggtgcatc 240  
 ctcagaaacc tactcaacac agcactctag gcagccacta tcaatcaatt gaagttgaca 300  
 ctctgcatta aatctatttg ccatttctga aaaaaaaaaa aaaaaaaggg cggccgctcg 360  
 antctagagg gcccgtttaa acccgctgat cagcctcgac tgtgccttct anttgccagc 420  
 catctgttgt ttgcccctcc cccgntgcct tccttgacct tggaaagtgc cactcccact 480  
 gtcctttcct aantaaaat 499

<210> 74  
 <211> 537  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(537)  
 <223> n = A,T,C or G

<400> 74  
 tttcatagga gaacacactg aggagatact tgaagaattt ggattcagcc gcgaagagat 60  
 ttatcagctt aactcagata aaatcattga aagtaataag gtaaaagcta gtctctaact 120  
 tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa 180  
 cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga 240  
 aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag 300  
 ggcttttgat ttataanaact ttgggtactt atactaaatt atggtagtta tactgccttc 360  
 cagtttgctt gatataattg ttgatattaa gattcttgac ttatattttg aatgggttct 420  
 actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat 480

537

```
<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G
```

<400> 75						
caaanacaat	tgttcaaaag	atgcaaata	tacactactg	ctgcagctca	caaacacctc	60
tgcataattac	acgtacctcc	tcctgctcct	caagtagtgt	ggtctatttt	gccatcatca	120
cctgctgtct	gcttagaaga	acggctttct	gctgcaangg	agagaaatca	taacagacgg	180
tggcacaagg	aggccatctt	ttctcatcg	gttattgtcc	ctagaagcgt	cttctgagga	240
tctagttggg	ctttctttct	gggtttgggc	catttcantt	ctcatgtgtg	tactattcta	300
tcattattgt	ataacggttt	tcaaaccngt	gggcacncag	agaacctcac	tctgtaataa	360
caatgaggaa	tagccacggt	gatctccagc	accaaattct	tccatgttnt	tccagagctc	420
ctccagccaa	cccaaatagc	cqctgctatn	gtgtagaaca	tccctgn		467

```
<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G
```

<400> 76						
aagctgacag	cattcgggcc	gagatgtctc	gctccgtggc	cttagctgtg	ctcgcgctac	60
tctctctttc	tggcctggag	gctatccagc	gtactccaaa	gattcagggt	tactcaagtc	120
atccagcaga	gaatggaaag	tcaaatttcc	tgaattgcta	tgtgtctggg	tttcatccat	180
ccgacattga	agttgactta	ctgaagaatg	gagagagaat	tgaaaaagtg	gagcattcag	240
acttgtcttt	cagcaaggac	tgggtctttc	atctcttgta	ctacactgaa	ttcaccccca	300
ctgaaaaaga	tgagtatgcc	tgccgtgtga	accatgtgac	tttgtcacag	ccaagatng	360
ttnagtggga	tcganacatg	taagcagcan	catgggaggt			400

```
<210> 77
<211> 248
<212> DNA
<213> Homo sapien
```

<400> 77						
ctggagtgcc	ttggtgtttc	aagcccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgccc	cggcggggga	tgcgaggctc	ggagcaccct	tgcccggtg	tgattgctgc	120
caggcactgt	tcatctcagc	ttttctgtcc	ctttgtctcc	ggcaagcgct	tctgctgaaa	180
gttcataatc	ggagcctgat	gtcttaacga	ataaaggtcc	catgctccac	ccgaaaaaaaa	240
aaaaaaaaaa						248

<210> 78

<211> 201  
 <212> DNA  
 <213> Homo sapien

<400> 78  
 actagtccag tgtggtggaa ttccattgtg ttggggcccaa cacaatggct acctttaaca 60  
 tcacccagac cccgccctgc ccggtgcccc cgtgtgtgt aacgacagta tgatgcttac 120  
 tctgtactc ggaaactatt tttatgtaat taatgtatgc tttcttgttt ataaatgcct 180  
 gatttaaaaa aaaaaaaaaa a 201

<210> 79  
 <211> 552  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(552)  
 <223> n = A,T,C or G

<400> 79  
 tccttttgtt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg 60  
 tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt 120  
 cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag 180  
 tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt 240  
 atgcaagtta gtaattactc agggttaact aaattacttt aatatgctgt tgaacctact 300  
 ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga 360  
 taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tggaatttta 420  
 ttcccaggaa tatggggttc atttatgaat antacccggg anagaagttt tganntaaac 480  
 cngtttttgt taatcgtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa 540  
 aaaaaaaaaa aa 552

<210> 80  
 <211> 476  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(476)  
 <223> n = A,T,C or G

<400> 80  
 acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga 60  
 ggggaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct 120  
 cacacagact cccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt 180  
 gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta 240  
 aggttaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac 300  
 tcttctaagt cctcttcag cctcactttg agtcctcctt gggggttgat aggaantntc 360  
 tcttggttt ctcaataaaa tctctatcca tctcatgttt aatttggtag gcntaaaaat 420  
 gctgaaaaaa ttaaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa 476

<210> 81  
 <211> 232

<223> n = A, T, C or G

tttttttttg	tatgcentcn	ctgtggngtt	attgttgctg	ccaccctgga	ggagcccagt	60
ttcttctgta	tctttctttt	ctgggggatc	ttcctggctc	tgcccctcca	ttcccagcct	120
ctcatcccca	tcttgcactt	ttgctagggt	tggaggcgct	ttcctggtag	cccctcagag	180
actcagtcag	cgggaataag	tcctaggggt	ggggggtgtg	gcaagccggc	ct	232

<213> Homo sapien

<223> n = A, T, C or G

aggcgggagc	agaagctaaa	gccaaagccc	aagaagagtg	gcagtgccag	cactgggtgcc	60
agtaccagta	ccaataacat	gccagtgcca	gtgccagcac	cagtgggtggc	ttcagtgctg	120
gtgccagctt	gaccgccact	ctcacatttg	ggctcttgcg	tggccttggg	ggagctgggtg	180
ccagcaccag	tggcagctct	ggtgcctgtg	gtttctccta	caagtgagat	tttagatatt	240
gttaatcctg	ccagtccttc	tcttcaagcc	aggggtgcac	ctcagaaacc	tactcaacac	300
agcactctng	gcagccacta	tcaatcaatt	gaagttgaca	ctctgcatta	aatctatttg	360
ccattttcaaa	aaaaaaaaaa	aaa				383

<213> Homo sapien

<223> n = A, T, C or G

accgaattgg	gaccgctggc	ttataagcga	tcatgtcctc	cagtattacc	tcaacgagca	60
gggagatcga	gtctatacgc	tgaagaaatt	tgacccgatg	ggacaacaga	cctgctcagc	120
ccatcctgct	cgtttctccc	cagatgacaa	atactctcga	caccgaatca	ccatcaagaa	180
acgcttcaag	gtgctcatga	cccagcaacc	gcgccctgtc	ctctgagggg	ccttaaactg	240
atgtcttttc	tgccacctgt	taccctctcg	agactccgta	accaaactct	tggactgtg	300
agccctgatg	cctttttgcc	agccatactc	tttggcntcc	agtctctcgt	ggcgattgat	360
tatgcttggt	tgaggcaatc	atgggtggcat	cacccatnaa	gggaacacat	ttganttttt	420
tttcncatat	tttaaattac	naccagaata	nttcagaata	aatgaattga	aaaactctta	480
aaaaaaaaaa	aaaa					494

<210> 84  
 <211> 380  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(380)  
 <223> n = A,T,C or G

<400> 84  
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60  
 agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120  
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttctgg 180  
 gcacaccctc ctgggggcca ggcgggcacc tgcgtctccc agtatgccaa ctggctggtg 240  
 gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg 300  
 ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360  
 agcgttnccg cctcatccgg 380

<210> 85  
 <211> 481  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(481)  
 <223> n = A,T,C or G

<400> 85  
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctgc ttcataaccgc 60  
 tnccatcgtc atactgtagg tttgccacca cctcctgcat cttggggcgg ctaatatcca 120  
 ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180  
 tgtgaaagga tctccagaag gagtgctcga ttttccccac acttttgatg actttattga 240  
 gtcgattctg catgtccagc aggaggttgt accagctctc tgacagttag gtcaccagcc 300  
 ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac 360  
 ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420  
 aaagaacacc tcctggaagt gctngccgct cctcgtccnt tgggtggngc gentnecctt 480  
 t 481

<210> 86  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(472)  
 <223> n = A,T,C or G

<400> 86  
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt 60  
 acttggaana gcaactnaa gcctggacac tggattataa attcacaata tgcaacactt 120  
 taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg 180

ccctattcac	acctgttaaa	aggcgctaa	gcatttttga	ttcaacatct	ttttttttga	240
cacaagtccg	aaaaaagcaa	aagtaaacag	ttnttaattt	gttagccaat	tcactttctt	300
catgggacag	agccatttga	tttaaaaagc	aaattgcata	atattgagct	ttgggagctg	360
atatntgagc	ggaagantag	cctttctact	tcaccagaca	caactccttt	catattggga	420
tgtnnacnaa	agttatgtct	cttacagatg	ggatgctttt	gtggcaattc	tg	472

<210> 87  
 <211> 413  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(413)  
 <223> n = A,T,C or G

agaaaccagt	atctctnaaa	acaacctctc	ataccttgtg	gacctaat	ttgtgtgcgtg	60
ttgtgtgtgcg	cgcataattat	atagacaggc	acatcttttt	tactttttgta	aaagcttatg	120
cctcttttgt	atctatatct	gtgaaagt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaatggt	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	ttccagatn	acaacactna	caaactctcc	cttgactagg	300
ggggacaaag	aaaagcanaa	ctgaacatna	gaaacaattn	cctgggtgaga	aattncataa	360
acagaaattg	ggtngtatat	tgaaananng	catcattnaa	acgttttttt	ttt	413

<210> 88  
 <211> 448  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(448)  
 <223> n = A,T,C or G

cgcagcgggt	cctctctatc	tagctccagc	ctctcgctg	ccccactccc	cgcgtcccgc	60
gtcctagccn	accatggccg	ggcccctg	cgccccgctg	ctcctgctgg	ccatcctggc	120
cgtggccctg	gccgtgagcc	ccgcggcccg	ctccagtc	ggcaagccgc	cgcgcctggt	180
gggaggccca	tggaccccg	gtggaagaag	aaggtgtg	gcgtgcactg	gactttgccg	240
tcggcnanta	caacaaaccc	gcaacnactt	ttaccnagcn	cgcgctgcag	gttgtgccgc	300
cccaancaaa	ttgttactng	gggtaantaa	ttcttggaag	ttgaacctgg	gccaaacnng	360
tttaccagaa	ccnagccaat	tngaacaatt	ncccctccat	aacagccccc	tttaaaaagg	420
gaancantcc	tgntcttttc	caaatttt				448

<210> 89  
 <211> 463  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(463)  
 <223> n = A,T,C or G

```
<210> 92
<211> 477
<212> DNA
<213> Homo sapien
```

<400> 92

<210> 93

<212> DNA

$\langle 220 \rangle$

 $\langle 222 \rangle \quad (1) \dots (377)$ 

<400> 93

<210> 94

<212> DNA

$\langle 220 \rangle$

<222> (1) ... (495)

<400> 94

ccctttgagg	ggttagggtc	cagttcccag	tggaagaaac	aggccaggag	aantgcgtgc	60
cgagctgang	cagatttccc	acagtgacct	cagagccctg	ggctatagtc	tctgacctct	120
ccaaggaaa	accaccttct	ggggacatgg	gctggagggc	aggacctaga	ggcaccaagg	180
gaaggcccca	ttccggggct	gttccccgag	gaggaaggga	aggggctctg	tgtgcccccc	240
acgaggaana	ggccctgant	cctgggatca	nacacccctt	cacgtgtatc	cccacacaaa	300
tgcaagctca	ccaaggtccc	ctctcagtec	cttcctaca	ccctgaacgg	ncactggccc	360
acaccacccc	agancancca	cccgccatgg	ggaatgtnct	caaggaatcg	cngggcaacg	420
tggactctng	tcccnnaagg	gggcagaatc	tccaatagan	gganngaacc	cttgctnana	480



aaaaaaaaana aaaaaa

495

<210> 95  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(472)  
 <223> n = A,T,C or G

<400> 95  
 gggtacttggt tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60  
 cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120  
 tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact 180  
 tatttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt 240  
 atgatgaaaa gcaatagata tatattcttt tattatgtn aattatgatt gccattatta 300  
 atcggcaaaa tgtggagtg atgttctttt cacagtaata tatgcctttt gtaacttcac 360  
 ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420  
 tttanttcan taatttcttt ccttggtttac gttaattttg aaaagaatgc at 472

<210> 96  
 <211> 476  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(476)  
 <223> n = A,T,C or G

<400> 96  
 ctgaagcatt tcttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat 60  
 gtggtgaaat ttcaaaatta tatgtaactt ctactagtgt tactttctcc cccaagtctt 120  
 ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt 180  
 attcttcaca gtagatgatg aaagagtcct ccagtgtctt gngcanaatg ttctagntat 240  
 agctggatac atacngtgagg agttctataa actcatacct cagtgggact naacccaaat 300  
 tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360  
 gcaggtactc ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420  
 tacaaagtct atcttcctca nangtctgtn aaggaacaat ttaatcttct agcttt 476

<210> 97  
 <211> 479  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(479)  
 <223> n = A,T,C or G

<400> 97  
 actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaattggata 60

aaataatgct	gcaaaacttaa	tggttcttatg	caaaatggaa	cgctaatagaa	acacagctta	120
caatcgcaaa	tcaaaactca	caagtgtctca	tctgtttag	atttagtgta	ataagactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaa	240
caggctacta	gaattctgtt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaatttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnttttta	natcaaagta	ttttgtgttt	ggaantgtnn	aaatgaaatc	tgaatgtggg	420
ttcnatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tganccatc	479

&lt;210&gt; 98

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 98

agtgacttgt	cctccaacaa	aaccoccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtcc	tgctacttat	tcgtacttaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgattcag	tttcctctac	ggatgagaga	ctggctcaag	aatactctca	tcagacttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
tttgaataaa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

&lt;210&gt; 99

&lt;211&gt; 171

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 99

gtggccgcgc	gcagggtgtt	cctcgtaccg	cagggccccc	tcccttcccc	aggcgtccct	60
cggcgctct	gcgggcccga	ggaggagcgg	ctggcggggtg	gggggagtgt	gaccacccct	120
cggtgagaaa	agccttctct	agcgatctga	gaggcggtgcc	ttgggggtac	c	171

&lt;210&gt; 100

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 100

cggccgcaag	tgcaactcca	gctggggccg	tgccgacgaa	gattctgcca	gcagttggtc	60
cgactgcgac	gacggcgggc	gcgacagtgc	caggtgcagc	gcgggcgccct	ggggctcttgc	120
aaggctgagc	tgacgccgca	gaggtcgtgt	cacgtcccac	gaccttgacg	ccgtcgggga	180
cagccggaac	agagcccgg	gaagcgggag	gcctcgggga	gccccctcgg	aagggcggcc	240
cgagagatac	gcaggtgcag	gtggccgcgc				269

&lt;210&gt; 101

&lt;211&gt; 405

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 101

tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttattttgca	60
gctagcaagg	taacagggta	gggcatgggt	acatgttcag	gtcaacttcc	tttgctgtgg	120
ttgattgggt	tgtctttatg	ggggcgggg	ggggtagggg	aaacgaagca	aataacatgg	180

```
<210> 102
<211> 470
<212> DNA
<213> Homo sapien
```

```
<210> 103
<211> 581
<212> DNA
<213> Homo sapien
```

```
<210> 104
<211> 578
<212> DNA
<213> Homo sapien
```

<400> 104						
tttttttttt	tttttttttt	tttttctctt	cttttttttt	gaaatgagga	tgcagttttt	60
cactctctag	atagggcatg	aagaaaactc	atctttccag	ctttaaaata	acaatcaa	120
ctcttatgct	atatcatatt	ttaagttaaa	ctaattgagtc	actggcttat	cttctcctga	180
aggaaatctg	ttcattcttc	tcattcatat	agttatatca	agtactacct	tgcattattga	240
gaggtttttt	ttctctat	acacatat	ttccatgtga	atttgatatca	aacctttatt	300
ttcatgcaaa	ctagaaaata	atgttttctt	tgcataaag	aagagacaa	tatagcatta	360
caaaaactgct	caaattgttt	gttaagttaa	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacgca	ataataaaac	tgaagtacca	gttaaatatc	caaaataatt	480
aaaggaacat	ttttagctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
tgaattcaca	tgttattatt	cctagcccaa	cacaatgg			578

<210> 105  
 <211> 538  
 <212> DNA  
 <213> Homo sapien

<400> 105  
 tttttttttt tttttcagta ataatcagaa caatatattat ttttatattt aaaattcata 60  
 gaaaagtgcc ttacatttaa taaaagtttg tttctcaaa tgatcagagg aattagatat 120  
 gtcttgaaca ccaatattaa tttgaggaaa atacaccaa atacattaag taaattattt 180  
 aagatcatag agcttgtaag tgaaaagata aaatttgacc tcagaaactc tgagcattaa 240  
 aaatccacta ttagcaaata aattactatg gacttcttgc ttttaattttg tgatgaatat 300  
 ggggtgtcac tggtaaacca acacattctg aaggatacat tacttagtga tagattctta 360  
 tgtactttgc taatacgtgg atatgagttg acaagtttct ctttcttcaa tcttttaagg 420  
 ggcgagaaat gaggaagaaa agaaaaggat tacgcatact gttctttcta tggaaggatt 480  
 agatatgttt cctttgccaa tattaataatgt ttactactag tgaaaccc 538

<210> 106  
 <211> 473  
 <212> DNA  
 <213> Homo sapien

<400> 106  
 tttttttttt ttttttagtc aagtttctat ttttattata attaaagtct tggtcatttc 60  
 atttattagc tctgcaactt acatatttaa attaaagaaa cgttttagac aactgtacaa 120  
 tttataaatg taagtgcca ttattgagta atatatctct ccaagagtgg atgtgtccct 180  
 tctcccacca actaatgaac agcaacatta gtttaatttt attagtagat atacactgct 240  
 gcaaacgcta attctcttct ccattcccat gtgatattgt gtatatgtgt gagggtgtag 300  
 aatgcatcac aatctacaat caacagcaag atgaagctag gctgggcttt cggtgaaaat 360  
 agactgtgtc tgtctgaatc aaatgatctg acctatctc ggtggcaaga actcttcgaa 420  
 ccgcttctc aaaggcgtg ccacatttgt ggctctttgc acttgtttca aaa 473

<210> 107  
 <211> 1621  
 <212> DNA  
 <213> Homo sapien

<400> 107  
 cgccatggca ctgcagggca tctcggcat ggagctgtcc ggccctggccc cgggccggtt 60  
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 ccgctacgac gtgagccgct tgggcccggg caagcgctcg ctagtgtctg acctgaagca 180  
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<210> 108
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<212> PRT
<213> Homo sapien

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35 40 45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50 55 60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65 70 75 80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85 90 95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100 105 110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115 120 125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130 135 140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
145 150 155 160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165 170 175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180 185 190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
195 200 205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
210 215 220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe
225 230 235 240
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro
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Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp
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 <211> 1524  
 <212> DNA  
 <213> Homo sapien

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<210> 110  
 <211> 3410  
 <212> DNA  
 <213> Homo sapien

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3410

<210> 111  
 <211> 1289  
 <212> DNA  
 <213> Homo sapien

<400> 111

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 <211> 315  
 <212> PRT  
 <213> Homo sapien

<400> 112

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Phe	Phe	Leu	Phe	Phe	Leu	Gly	Val	Trp	Leu	Val	Ala	Tyr	Gly	Val	Ala
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Thr	Glu	Gly	Leu	Leu	Arg	Pro	Arg	Asp	Ser	Asp	Phe	Pro	Ser	Ile	Leu
	50				55						60				
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65				70				75						80	
Gln	Glu	Asp	Met	Asp	Val	Ala	Leu	Met	Glu	His	Ser	Asn	Cys	Ser	Ser
			85					90						95	
Glu	Pro	Gly	Phe	Trp	Ala	His	Pro	Pro	Gly	Ala	Gln	Ala	Gly	Thr	Cys
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 165 170 175  
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Arg Gln  
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 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu  
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 225 230 235 240  
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val  
 245 250 255  
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg  
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 180 185 190



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<211> 218  
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<220>  
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<223> n = A,T,C or G

<400> 121  
tgtancgtga anacgacaga nagggttgct aaaaatggag aanccttgaa gtcattttga 60  
gaataagatt tgctaaaaga tttgggggcta aaacatgggtt attgggagac atttctgaag 120  
atatncangt aaattangga atgaattcat ggttctttttg ggaattcctt tacgatngcc 180  
agcatanact tcatgtggggg atancagcta cccttgta 218

<210> 122  
<211> 171  
<212> DNA  
<213> Homo sapien

<400> 122  
taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60  
catttgtag ctcatggaac aggaagtcgg atgggtggggc atcttcagtg ctgcatgagt 120  
caccaccccg gcgggggtcat ctgtgccaca ggtccctggt gacagtgcgg t 171

<210> 123  
<211> 76  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(76)  
<223> n = A,T,C or G

<400> 123

tgtagcgtga agacnacaga atggtgtgtg ctgtgctatc caggaacaca tttattatca 60  
ttatcaanta ttgtgt 76

<210> 124  
<211> 131  
<212> DNA  
<213> Homo sapien

<400> 124  
acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60  
caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120  
ttaagatttg t 131

<210> 125  
<211> 432  
<212> DNA  
<213> Homo sapien

<400> 125  
actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60  
cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120  
ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180  
ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240  
ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300  
catggtgggg gtcttgcate tgtaagaatg gaattgattt tgcttttgca agaattctcag 360  
caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgcctctc 420  
ctctttgctt gt 432

<210> 126  
<211> 112  
<212> DNA  
<213> Homo sapien

<400> 126  
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60  
agtaagaatg atatttcccc ccagggatca ccaaatattt ataaaaattt gt 112

<210> 127  
<211> 54  
<212> DNA  
<213> Homo sapien

<400> 127  
accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128  
<211> 323  
<212> DNA  
<213> Homo sapien

<400> 128  
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60  
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgtcga 120  
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagtgc 180

ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 240  
 ttcttgcaaa aggtcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct 300  
 aggtgcctt cttttccatg tcc 323

<210> 129  
 <211> 192  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(192)  
 <223> n = A,T,C or G

<400> 129  
 acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatac 60  
 tgaaaaacaca ctaacataat ttntgtgaac catgacaga tacaacccaa atcattcatc 120  
 tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg 180  
 gataaacaaa gt 192

<210> 130  
 <211> 362  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(362)  
 <223> n = A,T,C or G

<400> 130  
 ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca 60  
 tataatgacg caacaaaaag gtgctgttta gtcctatggt tcagtttatg cccctgacaa 120  
 gtttccattg tgttttgccg atcttctggc taatcgtggt atcctccatg ttattagtaa 180  
 ttctgtattc cattttgtta acgcctggt gatgtaacct gctangaggc taactttata 240  
 cttatttaaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat 300  
 tgcagcagga agcacgtgtg gggttggtgt aaagctcttt gctaattcta aaaagtaatg 360  
 gg 362

<210> 131  
 <211> 332  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A,T,C or G

<400> 131  
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca 60  
 gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120  
 gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180  
 ttctgaacta gattaaggca gcttgtaa atctgatgtgat ttggtttatt atccaactaa 240

cttccatctg ttatcactgg agaaagccca gactcccean gacnggtacg gattgtgggc 300  
atanaaggat tgggtgaagc tggcgttgtg gt 332

<210> 132  
<211> 322  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(322)  
<223> n = A,T,C or G

<400> 132  
acttttgcca ttttgatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60  
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120  
ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggaaccttg tatctcgggt 180  
tttagcaagt taaaaatgaan atgacaggaa aggccttatt atcaacaaag agaagagttg 240  
ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct 300  
gtaacaatct acaattgggtc ca 322

<210> 133  
<211> 278  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(278)  
<223> n = A,T,C or G

<400> 133  
acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt 60  
cttggttttc tttccatctg gctcctgggt tgacaatttg tggaaacaac tctattgcta 120  
ctatttaaaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg 180  
ctattcctgt tttgtcaaag aaattatatt tttcaaaata tgtntatttg tttgatgggt 240  
cccacgaac actaataaaa accacagaga ccagcctg 278

<210> 134  
<211> 121  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(121)  
<223> n = A,T,C or G

<400> 134  
gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60  
tgattctctg aggttaaaact tggttttcaa atgttatatt tacttgatt ttgcttttgg 120  
t 121

<210> 135



<211> 350  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(350)  
 <223> n = A,T,C or G

<400> 135

acttanaacc	atgcctagca	catcagaatc	cctcaaagaa	catcagtata	atcctataacc	60
atancaagtg	gtgactgggt	aagcgtgcga	caaaggctcag	ctggcacatt	acttgtgtgc	120
aaacttgata	cttttgttct	aagtaggaac	tagtatacag	tncctaggan	tggtactcca	180
gggtgcccc	caactcctgc	agccgctcct	ctgtgccagn	ccctgnaagg	aactttcgtc	240
ccacctcaat	caagccctgg	gccatgctac	ctgcaattgg	ctgaacaaac	gtttgtctgag	300
ttcccaagga	tgcaaagcct	ggtgctcaac	tcttggggcg	tcaactcagt		350

<210> 136  
 <211> 399  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(399)  
 <223> n = A,T,C or G

<400> 136

tgtaccgtga	agacgacaga	agttgcatgg	cagggacagg	gcagggccga	ggccagggtt	60
gctgtgattg	tatccgaata	ntcctcgtga	gaaaagataa	tgagatgacg	tgagcagcct	120
gcagacttgt	gtctgccttc	aanaagccag	acaggaaggc	cctgcctgcc	ttggctctga	180
cctggcgcc	agccagccag	ccacaggtgg	gcttcttcct	tttgtggtga	caacnccaag	240
aaaactgcag	aggcccagg	tcaggtgtna	gtgggtangt	gaccataaaa	caccaggtgc	300
tcccaggaac	ccgggcaaag	gccatcccca	cctacagcca	gcatgcccac	tggcgtgatg	360
ggtgcagang	gatgaagcag	ccagntgttc	tgctgtggt			399

<210> 137  
 <211> 165  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(165)  
 <223> n = A,T,C or G

<400> 137

actggtgtgg	tngggggtga	tgctgggtgt	anaagttgan	gtgacttcan	gatggtgtgt	60
ggaggaagtg	tgtgaacgta	gggatgtaga	ngttttggcc	gtgctaaatg	agcttcggga	120
ttggctggtc	ccactgggtg	tcactgtcat	tggtgggggt	cctgt		165

<210> 138  
 <211> 338  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(338)

<223> n = A,T,C or G

<400> 138

actcactgga	atgccacatt	cacaacagaa	tcagaggtct	gtgaaaacat	taatggctcc	60
ttaacttctc	cagtaagaat	cagggacttg	aaatggaaac	gttaacagcc	acatgcccaa	120
tgctgggcag	tctcccatgc	cttcacacagt	gaaagggctt	gagaaaaatc	acatccaatg	180
tcatgtgttt	ccagccacac	caaaaggtgc	ttgggggtgga	gggctggggg	catananggt	240
cangcctcag	gaagcctcaa	gttccattca	gctttgccac	tgtacattcc	ccatntttaa	300
aaaaactgat	gccttttttt	tttttttttg	taaaattc			338

<210> 139

<211> 382

<212> DNA

<213> Homo sapien

<400> 139

gggaatcttg	gtttttggca	tctggtttgc	ctatagccga	ggccactttg	acagaacaaa	60
gaaagggact	tcagagtaaga	aggtgattta	cagccagcct	agtgcccgaa	gtgaaggaga	120
attcaaacag	acctcgatcat	tcctgggtgtg	agcctgggtcg	gctcaccgcc	tatcatctgc	180
atttgcctta	ctcaggtgct	accggactct	ggccccctgat	gtctgtagtt	tcacaggatg	240
ccttattttgt	cttctacacc	ccacagggcc	ccctaattct	tcggatgtgt	ttttaataat	300
gtcagctatg	tgccccatcc	tccttcatgc	cctccctccc	tttctacca	ctgctgagtg	360
gcctggaact	tgtttaaagt	gt				382

<210> 140

<211> 200

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(200)

<223> n = A,T,C or G

<400> 140

accaaancctt	ctttctgttg	tggtngattt	tactataggg	gtttngcttn	ttctaaanat	60
acttttcatt	taacancttt	tgtaagtgt	caggetgcac	tttgtccat	anaattattg	120
ttttcacatt	tcaacttgta	tgtgtttgtc	tcttanagca	ttggtgaaat	cacatatttt	180
atattcagca	taaaggagaa					200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(335)

<223> n = A,T,C or G

```
<210> 142
<211> 459
<212> DNA
<213> Homo sapien
```

```
<210> 143
<211> 140
<212> DNA
<213> Homo sapien
```

```
<210> 144
<211> 164
<212> DNA
<213> Homo sapien
```

```

<400> 144
acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct    60
atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg    120
aggcaattaa tccatatattg ttttcaataa ggaaaaaaaag atgt                    164

```



<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(477)

<223> n = A,T,C or G

<400> 148

acaaccactt	tatctcatcg	aatttttaac	ccaaactcac	tactgtgcc	tttctatcct	60
atgggatata	ttatttgatg	ctccatttca	tcacacatat	atgaataata	cactcatact	120
gccctactac	ctgctgcaat	aatcacattc	ccttcctgtc	ctgaccctga	agccattggg	180
gtggtcctag	tggccatcag	tccangcctg	caccttgagc	ccttgagctc	cattgctcac	240
nccancccac	ctcaccgacc	ccatcctctt	acacagctac	ctccttgctc	tctaacccca	300
tagattatnt	ccaaattcag	tcaattaagt	tactattaac	actctacccg	acatgtccag	360
caccactggt	aagccttctc	cagccaacac	acacacacac	acacncacac	acacacatat	420
ccaggcacag	gctacctcat	cttcacaatc	accoccttaa	ttaccatgct	atggtgg	477

<210> 149

<211> 207

<212> DNA

<213> Homo sapien

<400> 149

acagttgtat	tataatatca	agaaataaac	ttgcaatgag	agcattttaag	aggaagaac	60
taacgtatnt	tagagagcca	aggaagggtt	ctgtggggag	tgggatgtaa	ggtggggcct	120
gatgataaat	aagagtcagc	caggtaagt	ggtggtgtgg	tatgggcaca	gtgaagaaca	180
tttcaggcag	aggaacagc	agtga				207

<210> 150

<211> 111

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(111)

<223> n = A,T,C or G

<400> 150

accttgatnt	cattgctgct	ctgatggaaa	cccaactatc	taatttagct	aaaacatggg	60
cacttaaatg	tggtcagtgt	ttggacttgt	taactantgg	catctttggg	t	111

<210> 151

<211> 196

<212> DNA

<213> Homo sapien

<400> 151

agcgcgccag	gtcatattga	acattccaga	tacctatcat	tactcgatgc	tgttgataac	60
agcaagatgg	ctttgaactc	agggcaccca	ccagctattg	gaccttacta	tgaaaacat	120
ggataccaac	cggaaaaccc	ctatcccgcg	cagcccactg	tgggtccccc	tgtctacag	180
gtgcatccgg	ctcagt					196

<210> 152

<211> 132  
 <212> DNA  
 <213> Homo sapien

<400> 152  
 acagcacttt cacatgtaag aagggagaaa ttcctaaatg taggagaaag ataacagaac 60  
 cttccccttt tcatctagtgt gtggaaacct gatgctttat gttgacagga atagaaccag 120  
 gagggagttt gt 132

<210> 153  
 <211> 285  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(285)  
 <223> n = A,T,C or G

<400> 153  
 acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag 60  
 cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctcagcagga 120  
 gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac 180  
 cctggctagt gaggggtgcgg cgccgtccct ggatgacggc atctgtgaag tcgtgcacca 240  
 gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154  
 <211> 333  
 <212> DNA  
 <213> Homo sapien

<400> 154  
 accacagtcc tgttgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60  
 accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120  
 cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180  
 attggcacag gagtcgaagg tggtcagctc ccctcctccg tggaaacgaga ctctgatttg 240  
 agtttcacaa attctcgggc cacctcgtca ttgctcctct gaaataaaaat ccggagaatg 300  
 gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155  
 <211> 308  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(308)  
 <223> n = A,T,C or G

<400> 155  
 actggaaata ataaaaccca catcacagtgt ttgtgtcaaa gatcatcagg gcatggatgg 60  
 gaaagtgctt tgggaactgt aaagtgccta acacatgata gatgattttt gttataatat 120  
 ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180  
 atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggct 240

```
<210> 156
<211> 295
<212> DNA
<213> Homo sapien
```

```
<210> 157
<211> 126
<212> DNA
<213> Homo sapien
```

```
<210> 158
<211> 442
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(442)  
<223> n = A,T,C or G
```

```
<210> 159
<211> 498
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G
```

<400> 159  
 acttccaggt aacgttggtg tttccggtga gcctgaactg atgggtgacg ttgtaggttc 60  
 tccaacaaga actgaggttg cagagcgggt agggaagagt gctgttccag ttgcacctgg 120  
 gctgctgtgg actgttggtg attcctcact acggcccaag gttgtggaac tggcanaaaag 180  
 gtgtgtgtgt gganttgagc tcgggcggct gtggtaggtt gtgggctctt caacaggggc 240  
 tgctgtggtg ccgggangtg aangtggtgt gtcacttgag cttggccagc tctggaaagt 300  
 antanattct tcctgaaggc cagcgcttgt ggagctggca ngggtcantg ttgtgtgtaa 360  
 cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatggtgtcn 420  
 tcaggtanaa atgtggtttc agtgccctg ggcngctgtg gaaggttgta nattgtcacc 480  
 aagggaataa gctgtggt 498

<210> 160  
 <211> 380  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(380)  
 <223> n = A,T,C or G

<400> 160  
 acctgcatcc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac 60  
 agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct 120  
 ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc 180  
 cactagacat ctcacagcc acttggtgta agagatgccc catgacccca gatgcctctc 240  
 ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg 300  
 gagaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggctgatt tctaacgaaa 360  
 cttgtagaat gaagcctgga 380

<210> 161  
 <211> 114  
 <212> DNA  
 <213> Homo sapien

<400> 161  
 actccacatc ccctctgagc aggcggttgt cgttcaaggt gtatttggcc ttgcctgtca 60  
 cactgtccac tggcccctta tccacttggt gcttaatccc tcgaaagagc atgt 114

<210> 162  
 <211> 177  
 <212> DNA  
 <213> Homo sapien

<400> 162  
 actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa 60  
 gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt 120  
 tgggtgatata taacttggca ataaccagc ctggtgatac ataaaactac tcactgt 177

<210> 163  
 <211> 137  
 <212> DNA  
 <213> Homo sapien



```

<400> 163
catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagc      60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt      120
catcagcggc atgatgt                                     137

```

```

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 164
cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta      60
tgcaatgcat catgctatth catacctaath gagggagttc caggagattc aaccaggaaa      120
tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt      180
gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg      240
ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg      300
gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct      360
tctagtaggc acagggctcc caggccaggc ctcattctcc tctggcctct aatagtcaat      420
gattgtgtag ccatgcctat cagtaaaaaag atntttgagc aaacacttt      469

```

```

<220>
<221> misc_feature
<222> (1)...(195)
<223> n = A,T,C or G

<400> 165
acagttttttt atanatatcg acattgccgg cacttgtggtt cagtttcata aagctgggtgg      60
atccgctgtc  atccactatt ccttggttag agtaaaaatt attcttatag cccatgtccc      120
tgcaggccgc  ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact      180
tcctctgaga  tqagt                                195

```

```
<220>  
<221> misc feature
```

<222> (1)...(383)

<223> n = A,T,C or G

<400> 166

acatcttagt	agtgtggcac	atcagggggc	catcaggggc	acagtcactc	atagcctcgc	60
cgaggtcgga	gtccacacca	ccggtgtagg	tgtgctcaat	cttgggcttg	gcgcccacct	120
ttggagaagg	gatatgctgc	acacacatgt	ccacaaagcc	tgtgaactcg	ccaaagaatt	180
tttgacagacc	agcctgagca	aggggcggat	gttcagcttc	agctcctcct	tcgtcagggtg	240
gatgccaacc	tcgtctangg	tccgtgggaa	gctgggtgtcc	acntcaccta	caacctgggc	300
gangatctta	taaagaggct	ccnagataaa	ctccacgaaa	cttctctggg	agctgctagt	360
nggggccttt	ttggtgaact	ttc				383

<210> 167

<211> 247

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(247)

<223> n = A,T,C or G

<400> 167

acagagccag	accttggcca	taaatgaanc	agagattaag	actaaacccc	aagtcganat	60
tggagcagaa	actggagcaa	gaagtgggcc	tggggctgaa	gtagagacca	aggccactgc	120
tatanccata	cacagagcca	actctcaggc	caaggcnatg	gttggggcag	anccagagac	180
tcaatctgan	tccaaagtgg	tggctggaac	actggtcatg	acanaggcag	tgactctgac	240
tgangtc						247

<210> 168

<211> 273

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(273)

<223> n = A,T,C or G

<400> 168

acttctaagt	tttctagaag	tggaaggatt	gtantcatcc	tgaaaatggg	tttacttcaa	60
aatccctcan	ccttgttctt	cacnactgtc	tatactgana	gtgtcatggt	tccacaaagg	120
gctgacacct	gagcctgnat	tttcactcat	ccctgagaag	ccctttccag	tagggtaggc	180
aattcccaac	ttccttgcca	caagcttccc	aggctttctc	ccctggaaaa	ctccagcttg	240
agtcccgat	acactcatgg	gctgccctgg	gca			273

<210> 169

<211> 431

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 169

acagccttgg	cttccccaaa	ctccacagtc	tcagtgcaga	aagatcatct	tccagcagtc	60
agctcagacc	agggtcaaaag	gatgtgacat	caacagtttc	tggtttcaga	acaggttcta	120
ctactgtcaa	atgaccccc	atacttctc	aaaggctgtg	gtaagttttg	cacaggtgag	180
ggcagcagaa	aggggtant	tactgatgga	caccatcttc	tctgtatact	ccacactgac	240
cttgccatgg	gcaaaggccc	ctaccacaaa	aacaatagga	tactgtctgg	gcaccagctc	300
acgcacatca	ctgacaaccg	ggatggaaaa	agaantgcc	actttcatac	atccaactgg	360
aaagtgatct	gatactggat	tcttaattac	cttcaaaagc	ttctgggggc	catcagctgc	420
tcgaacactg	a					431

<210> 170

<211> 266

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(266)

<223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgctgtgcc	ggctgtgaa	agggagttca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtcc	tgggaggggg	agttgggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(1248)

<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcgcca	60
ctggctcatg	aaaacgaatt	gttctgctcg	ggcgtcctgg	tgcattccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagt	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccagg	agccagatgg	tggaggccag	cctctccgta	240
cggaacccag	agtacaacag	acccttgctc	gctaacgacc	tcatgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcgggggaact	cttgcctcgt	ttctggctgg	ggctgtctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgttggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccgacat	gttctgcgcc	ggcggagggg	aagaccagaa	ggactcctgc	540
aacggtgaact	ctggggggcc	cctgatctgc	aacgggtact	tgaggggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccaggtgtct	acaccaacct	ctgcaaattc	660
actgagtggg	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720
attgaccccc	aaatacatcc	tgcggaagga	attcaggaat	atctgttccc	agccccctct	780
ccctcaggcc	caggagtcca	ggccccagc	ccctcctccc	tcaaaccaag	ggtacagatc	840

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<210> 172
<211> 159
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid

```

```
<210> 173
<211> 1265
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G
```

<400> 173						
ggcagccgc	actgcagcc	ctggcaggcg	gcactggtca	tggaaaacga	attgttctgc	60
tcgggcgtcc	tgggtgcatcc	gcagtgggtg	ctgtcagccg	cacactgttt	ccagaactcc	120
tacaccatcg	ggctgggect	gcacagtctt	gaggccgacc	aagagccagg	gagccagatg	180

gtggaggcca	gcctctccgt	acggcaccca	gagtacaaca	gacccttgct	cgctaacgac	240
ctcatgctca	tcaagttgga	cgaatccgtg	tccagagtctg	acaccatccg	gagcatcagc	300
attgcttcgc	agtgccctac	cgcggggaac	tcttgccctcg	tttctggctg	gggtctgctg	360
gcgaacgggtg	agctcacggg	tgtgtgtctg	ccctcttcaa	ggaggtcctc	tgcccagtcg	420
cgggggctga	cccagagctc	tgcgtcccag	gcagaatgcc	taccgtgctg	cagtgcgtga	480
acgtgtcggg	ggtgtctgag	gaggtctgca	gtaagctcta	tgaccgctg	taccacccca	540
gcatgttctg	cgccggcgga	gggcaagacc	agaaggactc	ctgcaacggg	gactctgggg	600
ggccccctgat	ctgcaacggg	tacttgacag	gccttggtgc	tttcggaaaa	gccccgtgtg	660
gccaaagttgg	cgtgccaggt	gtctacacca	acctctgcaa	attcactgag	tggatagaga	720
aaaccgtcca	ggccagttaa	ctctggggac	tgggaaccca	tgaaattgac	cccaaatac	780
atcctgcgga	aggaattcag	gaatatctgt	tcccagcccc	tcctccctca	ggcccaggag	840
tccaggcccc	cagccccctc	tcctcaaac	caagggtaca	gatccccagc	ccctcctccc	900
tcagaccag	gagtccagac	ccccagccc	ctcctccctc	agaccagga	gtccagcccc	960
tcctcctca	gaccaggag	tccagacccc	ccagcccctc	ctcctcaga	cccagggtt	1020
gaggccccca	acccctcctc	cttcagagtc	agaggtccaa	gcccccaacc	cctcgttccc	1080
cagaccaga	ggttnaggtc	ccagcccctc	ttcctcaga	cccagnggtc	caatgccacc	1140
tagattttcc	ctgnacacag	tgcccccttg	tggngangtg	acccaacctt	accagttggt	1200
ttttcatttt	tngtcccttt	cccctagatc	cagaaataaa	gtttaagaga	ngngcaaaaa	1260
aaaaa						1265

&lt;210&gt; 174

&lt;211&gt; 1459

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1459)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 174

ggtcagccgc	acactgtttc	cagaagttag	tgcagagctc	ctacaccatc	gggctggggc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcacc	agagtacaac	agacccttgc	tcgctaacga	cctcatgctc	atcaagttgg	180
acgaatccgt	gtccgagtct	gacaccatcc	ggagcatcag	cattgcttcg	cagtgcctta	240
ccgcggggaa	ctcttgccctc	gtttctggct	ggggtctgct	ggcgaacggg	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggtcct	ctgccagtc	gcgggggctg	accagagct	360
ctgcgtccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tgggtgtctga	420
ngaggtctgc	antaagctct	atgaccgct	gtaccacccc	ancatgttct	gcgccggcgg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaagg	tggagaagg	ggagacagag	acacacagg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgcaca	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcatggggcc	tgagggcggt	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtcgattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttggg	attttttgat	atttctaagc	tacacagttc	960
gtctgtgaat	ttttttaaat	tgttgcaact	ctcctaaaat	ttttctgatg	tgttttattga	1020
aaaaatccaa	gtataagtgg	acttgtgcat	tcaaaccagg	gttggttcaag	ggtcaactgt	1080
gtacccagag	ggaaacagtg	acacagattc	atagaggtga	aacacgaaga	gaaacaggaa	1140
aatcaagac	tctacaaaga	ggctgggcag	ggtggctcat	gcctgtaatc	ccagcacttt	1200
gggaggcgag	gcaggcagat	cacttgaggt	aaggagttca	agaccagcct	ggccaaaatg	1260
gtgaaatcct	gtctgtacta	aaaatacaaa	agttagctgg	atatgggtgg	aggcgctgt	1320
aatcccagct	acttggggag	ctgaggcagg	agaattgctt	gaatatggga	ggcagaggtt	1380

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gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actgggtcatg gaaaacgaat tgttctgctc gggcgctctg 60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggg ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgtctg ctaacgacct catgctcatc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300
tgccctaccg cggggaactc ttgcctcgtn tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgctgcactg cgtgaacgtg tcggtggtgt ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc caggtgtota caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gtttaactctg gggactggga 660
acccatgaaa ttgacccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gcccctctc cctcaggccc aggagtccag gccccagcc cctcctccct caaaccaagg 780
gtacagatcc ccagccctc ctccctcaga cccaggagtc cagaccccc agcccctent 840
ccntcagacc caggagtcca gcccctctc cntcagacgc aggagtccag acccccagc 900
cctcntccg tcagaccag ggggtcaggc cccaacccc tcntccntca gagtccagg 960
tccaagcccc caaccctcg ttccccagac ccagaggtnc aggtcccagc cctcctccc 1020
tcagaccag cggccaatg ccacctagan tntccctgta cacagtgcc ccttgtggca 1080
ngttgaccca acctaccag ttggttttc atttttgtc cctttcccct agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1           5           10           15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
          20          25          30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
          35          40          45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
 50          55          60

```

Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
 65 70 75 80  
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly  
 85 90 95  
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met  
 100 105 110  
 Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val  
 115 120 125  
 Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala  
 130 135 140  
 Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly  
 145 150 155 160  
 Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys  
 165 170 175  
 Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys  
 180 185 190  
 Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser  
 195 200 205

<210> 177  
 <211> 1119  
 <212> DNA  
 <213> Homo sapien

<400> 177  
 gcgcactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc 60  
 gtccctggtgc atccgcagtg ggtgctgtca gccgcacact gtttccagaa ctccctacacc 120  
 atcgggctgg gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag 180  
 gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg 240  
 ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct 300  
 tcgcagtgcc ctaccgcggg gaactcttgc ctggtttctg gctgggggtct gctggcgaaac 360  
 gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc 420  
 caaccctggc aggggtgtac catttcggca acttccagtg caaggacgtc ctgctgcac 480  
 ctactgggt gctcactact gctcactgca tcaccgggaa cactgtgatc aactagccag 540  
 caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt 600  
 actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc 660  
 cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc 720  
 tgacctacag aggtgaggga tcatatagct cttcaaggat gctgggtactc ccctcacaaa 780  
 ttcattttctc ctgtttagt gaaagggtgc cctctggag cctcccaggg tgggtgtgca 840  
 ggtcacaatg atgaatgat gatcgtgttc ccattaccca aagcctttaa atccctcatg 900  
 ctacgtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cattcatgca 960  
 accacctcag gactcctgga ttctctgcct agttgagctc ctgcatgctg cctccttggg 1020  
 gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc 1080  
 ttaataaaca gaagctgtga tgttaaaaaa aaaaaaaaaa 1119

<210> 178  
 <211> 164  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(164)  
 <223> Xaa = Any Amino Acid

<400> 178  
 Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp  
 1 5 10 15  
 Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
 20 25 30  
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val  
 35 40 45  
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu  
 50 55 60  
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
 65 70 75 80  
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly  
 85 90 95  
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val  
 100 105 110  
 Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu  
 115 120 125  
 Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg  
 130 135 140  
 Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser  
 145 150 155 160  
 Pro Gly Thr Leu

<210> 179  
 <211> 250  
 <212> DNA  
 <213> Homo sapien

<400> 179  
 ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60  
 ccagctgccc ccggccgggg gatgcgaggc tcggagcacc cttgcccggc tgtgattgct 120  
 gccaggcact gttcatctca gcttttctgt ccctttgctc ccggcaagcg cttctgctga 180  
 aagttcatat ctggagcctg atgtcttaac gaataaaggc cccatgctcc acccgaaaaa 240  
 aaaaaaaaaa 250

<210> 180  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<400> 180  
 actagtccag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca 60  
 tcacccagac ccgcccctg cccgtgcccc acgctgctgc taacgacagt atgatgctta 120  
 ctctgctact cgaaactat ttttatgtaa ttaatgtatg ctttcttgtt tataaatgcc 180  
 tgattttaaa aaaaaaaaaa aa 202

<210> 181  
 <211> 558  
 <212> DNA  
 <213> Homo sapien

<220>



<400> 181

<210> 182

<211> 479

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

<222> (1) ... (479)

<223> n = A, T, C or G

<400> 182

acagggwttk	grggatgcta	agscgccrga	rwtggtttga	tccaaccctg	gcttwttttc	60
agaggggaaa	atggggccta	gaagttacag	mscatytagy	tggtgcgmg	gcacccctgg	120
cstcacacaa	astcccgagt	agctgggact	acaggcacac	agtcaactgaa	gcaggccctg	180
ttwgcaattc	acgttgccac	ctccaactta	aacattcttc	atatgtgatg	tccttagtca	240
ctaaggttaa	actttcccac	ccagaaaagg	caacttagat	aaaatcttag	agtactttca	300
tactmttcta	agtcctcttc	cagcctcact	kkgagtcttm	cytgggggtt	gataggaant	360
ntctcttggc	tttctcaata	aartctctat	ycatctcatg	tttaatttgg	tacgcatara	420
awtgstgara	aaattaaaaa	gttctggtty	mactttaaaa	aaaaaaaaaa	aaaaaaaaaa	479

<210> 183

<211> 384

<212> DNA

<213> Homo sapien

<400> 183

aggcgggagc	agaagctaaa	gccaaagccc	aagaagagtg	gcagtgccag	cactggtgcc	60
agtaccagta	ccaataacag	tgccagtgcc	agtgccagca	ccagtggtag	cttcagtgtc	120
ggtgccagcc	tgaccgccac	tctcacattt	gggtcttcg	ctggccttgg	tggagctggg	180
gagcgcacca	gtggcagctc	tggtgcctgt	ggtttctcct	acaagtgaga	ttttagatat	240
tgtaaatacct	gccagtcttt	ctcttcaagc	caggggtgcat	cctcagaaac	ctactcaaca	300
cagcactcta	ggcagccact	atcaatcaat	tgaagttgac	actctgcatt	aratctattt	360
gccatttcaa	aaaaaaaaaa	aaaa				384

<210> 184

<211> 496

<212> DNA

<213> Homo sapien

<400> 184						
accgaattgg	gaccgctggc	ttataagcga	tcatgtyynt	ccrgtatcac	ctcaacgagc	60
agggagatcg	agtctatacg	ctgaagaaat	ttgacccgat	gggacaacag	acctgctcag	120
cccatcctgc	tcggttctcc	ccagatgaca	aatactctsg	acaccgaatc	accatcaaga	180
aacgcttcaa	ggtgctcatg	accagcaac	cgcgcctgt	cctctgaggg	tcccttaaac	240
tgatgtcttt	tctgccacct	gttacccttc	ggagactccg	taaccaaact	cttcggactg	300
tgagccctga	tgcctttttg	ccagccatac	tctttggcat	ccagtctctc	gtggcgattg	360
attatgcttg	tgtgaggcaa	tcatgggtggc	atcacccata	aagggaacac	atttgacttt	420
tttttctcat	attttaaatt	actacmagaw	tattwmagaw	waaatgawtt	gaaaaactst	480
taaaaaaaaa	aaaaaa					496

<400> 185						
gctggtagcc	tatggcgkgg	cccacggagg	ggctcctgag	gccacggrac	agtgacttcc	60
caagtatcyt	gcgcs'gcgtc	ttctaccgtc	cctacctgca	gatcttcggg	cagattcccc	120
aggaggacat	ggacgtggcc	ctcatggagc	acagcaactg	ytcgtcggag	cccggcttct	180
gggcacaccc	tcctggggcc	caggcgggca	cctgcgtctc	ccagtatgcc	aactggctgg	240
tggtgctgct	cctcgtcatc	ttcctgctcg	tggccaacat	cctgctggtc	aacttgctca	300
ttgccatgtt	cagttacaca	ttcggcaaag	tacagggcaa	cagcgatctc	tactgggaag	360
gcgcagcgtt	accgcctcat	ccgg				384

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<220>  
<221> misc_feature  
<222> (1)...(577)  
<223> n = A,T,C or G
```

<400> 186						
gagttagctc	ctccacaacc	ttgatgaggt	cgtctgcagt	ggcctctcgc	ttcataccgc	60
tnccatcgtc	atactgtagg	tttgccacca	cytcctggca	tcttggggcg	gcntaatatt	120
ccaggaaact	ctcaatcaag	tcaccgctga	tgaaacctgt	gggctggttc	tgtcttcgcg	180
tcggtgtgaa	aggatctccc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgagtcga	ttctgcatgt	ccagcaggag	gttgtaccag	ctctctgaca	gtgaggtcac	300
cagccctatc	atgccgttga	mcgtgccgaa	garcaccgag	ccttgtgtgg	gggkkgaaat	360
ctcaccacaga	ttctgcatta	ccagagagcc	gtggcaaaag	acattgacaa	actcgcccag	420
gtggaaaaag	amcactcct	ggargtgctn	gccgctccct	gtcmgttggt	ggcagcgctw	480
tctttttgac	acacaaacaa	gttaaaggca	ttttcagccc	ccagaaantt	gtcatcatcc	540
aaagtntcgc	acagcactna	tccagttggg	attaaat			577

<210> 187

<211> 534  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(534)  
 <223> n = A,T,C or G

<400> 187

aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgstg	agaatycatw	60
actkggaaaa	gmaacattaa	agcctggaca	ctggtattaa	aattcacaat	atgcaacact	120
ttaaacagtg	tgtcaatctg	ctcccyynac	tttgtcatca	ccagtctggg	aakaagggtg	180
tgccctattc	acacctgtta	aaagggcgct	aagcattttt	gattcaacat	cttttttttt	240
gacacaagtc	cgaaaaaagc	aaaagtaaac	agttatyaat	ttgttagcca	attcactttc	300
ttcatgggac	agagccatyt	gatttaaaaa	gcaaattgca	taatattgag	cttyggggagc	360
tgatatttga	gcggaagagt	agccttttcta	cttcaccaga	cacaactccc	tttcatattg	420
ggatgttnac	naaagtwtg	tctctwacag	atgggatgct	tttgtggcaa	ttctgttctg	480
aggatctccc	agtttattta	ccacttgcac	aagaaggcgt	tttcttcctc	aggc	534

<210> 188  
 <211> 761  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(761)  
 <223> n = A,T,C or G

<400> 188

agaaaccagt	atctctnaaa	acaacctctc	ataccttgtg	gacctaat	ttgtgtgcgtg	60
tgtgtgtgcg	cgcataattat	atagacaggc	acatcttttt	tacttttgta	aaagccttatg	120
cctctttggg	atctatatct	gtgaaagttt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaatggg	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	ctkgackarg	300
ggggacaaaag	aaaagcaaaa	ctgamcataa	raaacaatwa	cctggtgaga	arttgcataa	360
acagaaatwr	ggtagtatat	tgaarnacag	catcattaaa	rmgttwtktt	wttctccctt	420
gcaaaaaaca	tgtacngact	tcccgttgag	taatgccaag	ttgttttttt	tatnataaaa	480
cttgcccttc	attacatggt	tnaaagtggg	gtgggtggg	aaaatattga	aatgatggaa	540
ctgactgata	aagctgtaca	aataagcagt	gtgcctaaca	agcaacacag	taatgttgac	600
atgcttaatt	cacaaatgct	aattttcatta	taaatgtttg	ctaaaatata	ctttgaacta	660
tttttctgtn	ttcccagagc	tgagatntta	gattttatgt	agtatnaagt	gaaaaantac	720
gaaaataata	acattgaaga	aaaananaaa	aaanaaaaaa	a		761

<210> 189  
 <211> 482  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 189  
 tttttttttt tttgcccgatn ctactattttt attgcaggan gtgggggtgt atgcaccgca 60  
 caccggggct atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca 120  
 aagccgcctg ctgccttctc tgtctgtctc ctggtgcagg cacatgggga gaccttcccc 180  
 aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggangtgt gcataagaag 240  
 tgataggcac aggccacccg gtacagaccc ctcggtcctt gacaggtnga tttcgaccag 300  
 gtcattgtgc cctgcccagg cacagcgtan atctggaaaa gacagaatgc tttccttttc 360  
 aaatttggt ngtcatngaa ngggcanttt tccaanttng gctnggtctt ggtacncttg 420  
 gttcggccca gctcncgtc caaaaantat tcacccnnct ccnaattgct tgcnggnccc 480  
 cc 482

<210> 190  
 <211> 471  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(471)  
 <223> n = A,T,C or G

<400> 190  
 tttttttttt ttttaaaaca gtttttcaca acaaaattta ttagaagaat agtggttttg 60  
 aaaactctcg catccagtga gaactacat acaccacatt acagctngga atgtnctcca 120  
 aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag 180  
 cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaaatt 240  
 taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt 300  
 tgaaaaattt catgtatgca atccaaccaa agaacttnat tggatgatcat gantnctcta 360  
 ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancacncngt acaaaaaanaa 420  
 tctgtaattn anttcaacct ccgtacngaa aatntntnt tatacactcc c 471

<210> 191  
 <211> 402  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(402)  
 <223> n = A,T,C or G

<400> 191  
 gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct 60  
 gtctttocact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa 120  
 attcttcacc agtcacatct tctaggacct ttttgattc agttagtata agctcttcca 180  
 ctctctttgt taagacttca tctggtaaag tcttaagttt tgtagaaagg aattyaattg 240  
 ctogttctct aacaatgtcc tctccttgaa gtatttggt gaacaacca cctaaagtcc 300  
 ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc 360  
 aagagtcac tgtctgcaa agttgcgtta gtatatctgc ca 402

<210> 192  
 <211> 601  
 <212> DNA

<223> n = A, T, C or G

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcytyttt	gaytaccgtg	tgccaagtgc	tggtgattct	yaacacacyt	ccatcccgyt	180
cttttggtga	aaaactggca	cttktctgga	actagcarga	catcacttac	aaattcacc	240
acgagacact	tgaaggtgt	aacaaagcga	ytcttgcat	gctttttgtc	cctccggcac	300
cagttgtcaa	tactaaccgc	ctggtttgcc	tccatcacat	ttgtgatctg	tagctctgga	360
tacatctcct	gacagtaact	aagaacttct	tcttttgttt	caaaagcarg	tcttggtgcc	420
tgttggatca	ggttcccatt	tcccagtcyg	aatgttcaca	tggcatattt	wacttcccac	480
aaaacattgc	gatttgaggc	tcagcaacag	caaatcctgt	tccggcattg	gctgcaagag	540
cctcgatgta	gccggccagc	gccaaaggcag	gcgccgtgag	ccccaccagc	agcagaagca	600
g						601

<213> Homo sapien

<223> n = A, T, C or G

atacagccca	natccacca	cgaagatgcg	cttgttgact	gagaacctga	tgcggtcaact	60
ggtcccgctg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgcactcytt	120
cccaacgcag	gcagmagcgg	gscgggtcaa	tgaactccay	tcgtggcttg	gggtkgacgg	180
tkaagtgcag	gaagaggctg	accacctcgc	ggtccaccag	gatgcccgac	tgtgcggggac	240
ctgcagcgaa	actcctcgat	ggtcatgagc	gggaagcgaa	tgaggccag	ggccttgccc	300
agaaccttcc	gcctgttctc	tggcgtcacc	tgcagctgct	gccgctgaca	ctcggcctcg	360
gaccagcgga	caaacggert	tgaacagccg	cacctcacgg	atgcccaagt	tgtcgcgctc	420
caggammgsc	accagcgtgt	ccaggtcaat	gtcggtgaa	ccctccgcgg	gtratggcgt	480
ctgcagtggt	tttgtcgatg	ttctccaggc	acaggctggc	cagctgcggt	tcatcggaaga	540
gtgcgcgctg	cgtgagcagc	atgaaggcgt	tgtcggctcg	cagttcttct	tcagggaactc	600
cacqcaat						608

<213> Homo sapien

<223> n = A, T, C or G

<400> 194

gaacggctgg	accttgccctc	gcattgtgct	tgctggcagg	gaataccttg	gcaagcagyt	60
ccagtcgag	cagccccaga	ccgctgccgc	ccgaagctaa	gcctgcctct	ggccttcccc	120
tccgcctcaa	tgcaaacca	gtagtgggag	cactgtgttt	agagttaaga	gtgaacactg	180
tttgatttta	cttggaatt	tcctctgtta	tatagctttt	cccaatgcta	atttccaaac	240
aacaacaaca	aaataacatg	tttgctgtt	aagttgtata	aaagtaggtg	attctgtatt	300
taaagaaaat	attactgtta	catatactgc	ttgcaatttc	tgtatttatt	gktnctstgg	360
aaataaatat	agttattaaa	ggtgtcant	cc			392

<210> 195  
 <211> 502  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(502)  
 <223> n = A,T,C or G

ccsttkgagg	ggtkaggkyc	cagttyccga	gtggaagaaa	caggccagga	gaagtgcgtg	60
ccgagctgag	gcagatgttc	ccacagtgc	ccccagagcc	stgggstata	gtytctgacc	120
cctcncaagg	aaagaccacs	ttctggggac	atgggctgga	gggcaggacc	tagaggcacc	180
aagggaaagg	cccattccgg	ggstgttccc	cgaggaggaa	gggaaggggc	tctgtgtgcc	240
ccccasgagg	aagaggccct	gagtcctggg	atcagacacc	ccttcacgtg	tatccccaca	300
caaatgcaag	ctcaccaagg	tcccctctca	gtccccttcc	stacaccctg	amcggccact	360
gscscacacc	caccagagc	acgccacccg	ccatggggar	tgtgctcaag	gartcgcnng	420
gcarcgtgga	catctngtcc	cagaaggggg	cagaatctcc	aatagangga	ctgarcmstt	480
gctnanaaaa	aaaaanaaaa	aa				502

<210> 196  
 <211> 665  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(665)  
 <223> n = A,T,C or G

ggttacttgg	tttcattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc	60
cctctggaag	ccttgccgag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
wagctgtttk	gagttgatts	gcaccactgc	accacaaact	tcaatatgaa	aacyawttga	180
actwatthtat	tatcttgtga	aaagtataac	aatgaaaatt	ttgttcatac	tgtattkatc	240
aagtatgatg	aaaagcaawa	gatatatatt	cttttattat	gttaaattat	gattgccatt	300
attaatcggc	aaaatgtgga	gtgtatgttc	ttttcacagt	aatatatgcc	tttgtaact	360
tcacttgggt	attttattgt	aaatgartta	caaaattctt	aatttaagar	aatggtatgt	420
waattttatt	tcattaattt	ctttcctkgt	ttacgtwaat	tttgaaaaga	wtgcatgatt	480
tcttgacaga	aatcgatctt	gatgctgtgg	aagtagtttg	accacatcc	ctatgagttt	540
ttcttagaat	gtataaagg	tgtagcccat	cnaacttcaa	agaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcatgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

<210> 197

<211> 492  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(492)  
 <223> n = A,T,C or G

<400> 197

tttntttttt	ttttttttgc	aggaaggatt	ccattttattg	tggtatgcatt	ttcacaatat	60
atgtttattg	gagcgatcca	ttatcagtga	aaagtatcaa	gtgtttataa	natttttagg	120
aaggcagatt	cacagaacat	gctngtcngc	ttgcagtttt	acctcgtana	gatnacagag	180
aattatagtc	naaccagtaa	acnaggaatt	tacttttcaa	aagattaaat	ccaaactgaa	240
caaaattcta	ccctgaaact	tactccatcc	aaatattgga	ataanagtca	gcagtgatac	300
attctcttct	gaactttaga	ttttctagaa	aaatatgtaa	tagtgatcag	gaagagctct	360
tgttcaaaag	tacaacnaag	caatgttccc	ttaccatagg	ccttaattca	aactttgatc	420
catttcactc	ccatcacggg	agtcaatgct	acctgggaca	cttgtatttt	gttcatnctg	480
ancntggctt	aa					492

<210> 198  
 <211> 478  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(478)  
 <223> n = A,T,C or G

<400> 198

tttnttttgn	atttcantct	gtannaanta	ttttcattat	gtttattana	aaaatatnaa	60
tgtntccacn	acaaatcatn	ttacntnagt	aagaggccan	ctacattgta	caacatacac	120
tgagtatatt	ttgaaaagga	caagttttaa	gtanacncat	attgccganc	atanacacatt	180
tatacatggc	ttgattgata	tttagcacag	canaaactga	gtgagttacc	agaaanaaat	240
nataatgtgc	aatcngattt	aagatacaaa	acagatccta	tggtacatan	catcntgtag	300
gagttgtggc	tttatgttta	ctgaaagtca	atgcagttcc	tgtacaaaga	gatggccgta	360
agcattctag	tacctctact	ccatgggtta	gaatcgtaca	cttatgttta	catatgtnca	420
gggtaagaat	tgtgttaagt	naanttatgg	agagggtccan	gagaaaaatt	tgatncaa	478

<210> 199  
 <211> 482  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 199

agtgaacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtgtcc	tgtcatctat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaatctatt	cctacttgta	cggactttga	180





tttntttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	ttttttttt	60
tggcacttaa	tccattttta	tttcaaaaatg	tctacaaant	ttnaatncnc	cattatacng	120
gtnattttnc	aaaatctaaa	nnttattcaa	atntnagcca	aantccttac	ncaaatnnaa	180
tacnncnaaa	aatcaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaaaa	240
aatatatacg	gctggtgttt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatatctc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggccaacaa	480
caatggnaat	nccnccnnc	tggtactagt				509

<210> 203  
 <211> 583  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(583)  
 <223> n = A,T,C or G

tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaaatc	tgccataaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
agggaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tatttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaa	aaggcttaga	tccttttatg	480
tccattttag	tcactaaacg	atatchnaag	tgccagaatg	caaaagggtt	gtgaacattt	540
attcaaaagc	taatataaga	tatttcacat	actcatcttt	ctg		583

<210> 204  
 <211> 589  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(589)  
 <223> n = A,T,C or G

ttttttttnt	tttttttttt	ttttttntct	ttcttttttt	ttganaatga	ggatcgagtt	60
tttcaactct	tagatagggc	atgaagaaaa	ctcatctttc	cagcttttaa	ataacaatca	120
aatctcttat	gctatatcat	attttaagtt	aaactaatga	gtcactggct	tatcttctcc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagagggtt	ttcttctcta	tttacacata	tatttccatg	tgaatttgta	tcaaaccttt	300
attttcatgc	aaactagaaa	ataatgtntt	cttttgcata	agagaagaga	acaatatnag	360
cattacaaaa	ctgctcaaat	tgtttgtaa	gnntatccat	tataattagt	tnggcaggag	420
ctaatacaaa	tcacattttac	ngacnagcaa	taataaaact	gaagtaccag	ttaaatatcc	480
aaaataatta	aaggaacatt	tttagcctgg	gtataattag	ctaattcact	ttacaagcat	540
ttattnagaa	tgaattcaca	tgttattatt	ccntagccca	acacaatgg		589



tgaattggct	aaaagactgc	atTTTTanaa	ctagcaactc	ttatttcttt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttatag	gaccttctgg	tggttctgct	gttacntttg	aantctgaca	atccttgana	180
atctttgcat	gcagaggagg	taaaagggtat	tggattttca	cagaggaana	acacagcgca	240
gaaatgaagg	ggccaggctt	actgagcttg	tccactggag	ggctcatggg	tgggacatgg	300
aaaagaaggc	agcctaggcc	ctggggagcc	ca			332

<210> 208  
 <211> 524  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(524)  
 <223> n = A,T,C or G

agggcggtggt	gcgaggggcg	ttactgtttt	gtctcagtaa	caataaatac	aaaaagactg	60
gttgtgttcc	ggcccatcc	aaccacgaag	ttgatttctc	ttgtgtgcag	agtgactgat	120
tttaaaggac	atggagcttg	tcacaatgtc	acaatgtcac	agtgtgaagg	gcacactcac	180
tcccgctga	ttcacattta	gcaaccaaca	atagctcatg	agtccatact	tgtaaatact	240
tttggcagaa	tacttnttga	aacttgacga	tgataactaa	gatccaagat	atttcccaaa	300
gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagccag	acactgacat	caaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgtcatcaga	caggaggctg	tcaccttgac	caaattctca	ccagtcaatc	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccaccttg	gtga		524

<210> 209  
 <211> 159  
 <212> DNA  
 <213> Homo sapien

gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgctccttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgcccaga	ccctctcca			159

<210> 210  
 <211> 256  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(256)  
 <223> n = A,T,C or G

actccctggc	agacaaaggc	agaggagaga	gctctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctggtttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aaatca					256

<210> 211  
 <211> 264  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 211  
 acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60  
 actggaacac ataccacacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120  
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180  
 ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240  
 aaaaaaggag caaatgagaa gcct 264

<210> 212  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(328)  
 <223> n = A,T,C or G

<400> 212  
 acccaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa 60  
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120  
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccgccag 180  
 ttnaatttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240  
 cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca 300  
 ttttttttct ctttattcct ttgtcaga 328

<210> 213  
 <211> 250  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(250)  
 <223> n = A,T,C or G

<400> 213  
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60  
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaaagta agccaaggct 120  
 cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180  
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatc tctctnacct 240  
 tctcatcggt 250

<210> 214

<211> 444  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(444)  
 <223> n = A,T,C or G

<400> 214  
 acccagaatc caatgctgaa tatttggtt cattattccc agattctttg attgtcaaag 60  
 gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120  
 tttatatatg cagcaacaat attcaagcgc gacaacaggt tattgaactt gcccgccagt 180  
 tgaatttcat tccattgac ttgggaccc tatcatcagc canagagatt gaaaatttac 240  
 ccctacgact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat 300  
 tttttttccc tttattcctt tgcagagat gcgattcatc catatgctan aaaccaacag 360  
 agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420  
 actttgctct ccctaataata cctc 444

<210> 215  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(366)  
 <223> n = A,T,C or G

<400> 215  
 acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60  
 taaagcattg ctctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120  
 cattatgccca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180  
 ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240  
 tctcatcggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300  
 tccaagctgt tttctacact gtaaccaggt ttccaaccaa ggtggaaatc tctataactt 360  
 ggtgcc 366

<210> 216  
 <211> 260  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(260)  
 <223> n = A,T,C or G

<400> 216  
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgctc 60  
 caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat 120  
 taataaaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180  
 atcaaaaatt tcctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240  
 aattcttctc tccctccttt 260

<210> 217  
 <211> 262  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(262)  
 <223> n = A,T,C or G

<400> 217  
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60  
 tcttgccctat aattttctat tttaataaagg aaatagcaaaa ttgggggtggg gggaatgtag 120  
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180  
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240  
 atatccttca tgcttgtaaa gt 262

<210> 218  
 <211> 205  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(205)  
 <223> n = A,T,C or G

<400> 218  
 accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60  
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120  
 aggccctccc agttctactg acctttgtcc ttangtntna ngtcacagggt tgctaggaaa 180  
 anaaatcagc agacacagggt gtaaa 205

<210> 219  
 <211> 114  
 <212> DNA  
 <213> Homo sapien

<400> 219  
 tactgttttg tctcagtaac aataaataca aaaagactgg ttgtgttccg gccccatcca 60  
 accacgaagt tgattttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220  
 <211> 93  
 <212> DNA  
 <213> Homo sapien

<400> 220  
 actagccagc acaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60  
 aaataagcat ttagtgctca gtccctactg agt 93

<210> 221  
 <211> 167

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<220>  
<221> misc_feature  
<222> (1)...(167)  
<223> n = A,T,C or G
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<210> 222
<211> 351
<212> DNA
<213> Homo sapien
```

```
<210> 223
<211> 383
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(383)  
<223> n = A,T,C or G
```

```
<210> 224
<211> 320
<212> DNA
<213> Homo sapien
```

<400> 224						
cccctgaagg	cttcttgta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtaccctta	ctccccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggcaat	attttatcat	atgttctaaa	agagaaggaa	180

```
<210> 225
<211> 1214
<212> DNA
<213> Homo sapien
```

```
<210> 226
<211> 119
<212> DNA
<213> Homo sapien
```

```
<210> 227
<211> 818
<212> DNA
<213> Homo sapien
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<400> 227						
acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggctctccc	ccagccctga	60
tttttgctac	atatggggtc	ccttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacggtt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcttc	ctctggagga	aaggtggtga	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgctccc	ttccaatcag	ccactttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420



ggaaaggggtg	caccctcagc	agagaagccg	agagcttaac	tctggctcgtt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

&lt;210&gt; 228

&lt;211&gt; 744

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttgaacga	gcctcctcct	tggagatgg	aagaccgtgt	120
tctggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcttg	ccggtggtct	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggtcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgaacctg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttgggggttg	600
ttcttttctg	taatgttctt	ctgtgttgct	agctgtcttc	atttcttggg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcaactctg	aagtagctgg	tggt				744

&lt;210&gt; 229

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagat	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagtct	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

&lt;210&gt; 230

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcctgggttc	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

&lt;210&gt; 231

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 231  
 gcaagcacgc tggcaaatct ctgtcaggtc agctccagag aagccattag tcatttttagc 60  
 caggaactcc aagtccacat cottggcaac tggggacttg cgcaggttag ccttgaggat 120  
 ggcaacacgg gacttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180  
 tctgaggatg gcaggatcaa tgatgtcagg ccggttggtta ccgccaatga tgaacacatt 240  
 tttttttgtg gacatgccat ccatttctgt caggatctgg ttgatgactc ggtcagcagc 300  
 c 301

<210> 232  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 232  
 agtaggtatt tctgtagaag ttcaacacca aaactggaac atagttctcc ttcaagtgtt 60  
 ggcgacagcg gggcttctctg attctggaat ataactttgt gtaaattaac agccacctat 120  
 agaagagtcc atctgctgtg aaggagagac agagaactct gggttccgtc gtcctgtcca 180  
 cgtgctgtac caagtgtctg tgccagcctg ttacctgttc tcaactgaaa tctggctaata 240  
 gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300  
 g 301

<210> 233  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 233  
 atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60  
 atgctaaggc cccagagatc gtttgatcca accctcttat tttcagaggg gaaaatgggg 120  
 cctagaagtt acagagcatc tagctggtgc gctggcacc cttggcctcac acagactccc 180  
 gagtagctgg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatgag 240  
 taaaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300  
 c 301

<210> 234  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 234  
 aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60  
 cattttattc atcatgatgc tttcttttctg ttcttctttt cgttttcttc tttttctttt 120  
 tcaatttcag caacatactt ctcaatttct tcaaggattta aaatcttgag ggattgatct 180  
 cgcctcatga cagcaagttc aatgtttttg ccacctgact gaaccacttc caggagtggc 240  
 ttgatcacca gcttaatggg cagatcatct gcttcaatgg cttcgtcagt atagttcttc 300  
 t 301

<210> 235  
 <211> 283  
 <212> DNA

<400> 239

ataagcagct	aggaattct	ttatttagta	atgtcctaac	ataaaagttc	acataactgc	60
ttctgtcaaa	ccatgatact	gagctttgtg	acaacccaga	aataactaag	agaaggcaaa	120
cataatacct	tagagatcaa	gaaacattta	cacagttcaa	ctgttttaaa	atagctcaac	180
attcagccag	tgagtagagt	gtgaatgcc	gcatacacag	tatacaggtc	cttcaggga	239

&lt;210&gt; 240

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 240

ggtcctaag	aagcagcagc	ttccacattt	taacgcaggt	ttaacggtgat	actgtccttt	60
gggatctgcc	ctccagtgg	accttttaag	gaagaagtgg	gccaagcta	agttccacat	120
gctgggtgag	ccagatgact	tctgttcct	gtcactttc	ttcaatggg	cgaatgggg	180
ctgccaggtt	tttaaaatca	tgcttcatct	tgaagcacac	ggtcacttca	ccctcctcac	240
gctgtgggtg	tactttgatg	aaaataccca	ctttgttggc	ctttctgaag	ctataatgtc	300

&lt;210&gt; 241

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 241

gaggtctggt	gctgaggtct	ctgggctagg	aagaggagtt	ctgtggagct	ggaagccaga	60
cctcttttga	ggaaactcca	gcagctatgt	tgggtctct	gagggaatgc	aacaaggctg	120
ctcctccatg	tattggaaaa	ctgcaaaactg	gactcaactg	gaagggaagt	ctgctgccag	180
tgtgaagaac	cagcctgagg	tgacagaaac	ggaagcaaac	aggaacagcc	agtcttttct	240
tcctcctcct	gtcatacggg	ctctctcaag	catcctttgt	tgtcaggggc	ctaaaaggga	300
g						301

&lt;210&gt; 242

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 242

ccgaggtcct	gggatgcaac	caatcactct	gtttcacgtg	acttttatca	ccatacaatt	60
tgtggcattt	cctcattttc	tacattgtag	aatcaagagt	gtaaataaat	gtatatcgat	120
gtcttcaaga	atatatcatt	cctttttcac	tagaaccat	tcaaaatata	agtcaagaat	180
cttaatatca	acaaatatat	caagcaaact	ggaaggcaga	ataactacca	taatttagta	240
taagtaccca	aagttttata	aatcaaaagc	cctaagtata	accattttta	gaattcaatc	300
a						301

&lt;210&gt; 243

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 243

aggtaagtc	cagtttgaag	ctcaaaagat	ctggtatgag	cataggctca	tcgacgacat	60
ggtggcccaa	gctatgaaat	cagagggagg	cttcactctg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tgcccaagg	gtatggctct	ctcgcatga	tgaccagcgt	180
gctggtttgt	ccagatggca	agacagtaga	agcagaggct	gccacggga	ctgtaacccg	240
tcactaccgc	atgttcaga	aaggacagga	gacgtccacc	aatccattg	cttccatttt	300

t

301

<210> 244  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 244  
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60  
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120  
 ccaggacact tggaaacagt tgacactgta aggtgcttgc tccccaagac acatcctaaa 180  
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ctttcttatt tatgtgaaca 240  
 actgtttgtc ttttgtgtat cttttttaa ctgtaaagtt caattgtgaa aatgaatc 300

<210> 245  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 245  
 gtctgagtat ttaaaatggtt attgaaatta tccccaacca atgttagaaa agaaagaggt 60  
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120  
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180  
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240  
 agctaataaa atgaaagacc taatttctaa agcaattctt tataatttac aaagttttaa 300  
 g 301

<210> 246  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 246  
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60  
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120  
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180  
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240  
 caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa 300  
 c 301

<210> 247  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 247  
 aggtcctttg gcagggtcga tggatcagag ctcaaactgg agggaaaggc atttcgggta 60  
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aagggtgttt ccccccacgt 120  
 gtgtcctgtg ttcagggtcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180  
 ccttgatgat caaggttggg gcttaagtgg attaaggag gcaagttctg ggttccttgc 240  
 cttttcaaac catgaagtca ggctctgtat ccttcctttt cctaactgat attctaacta 300  
 a 301

<210> 248

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 248

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aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcaact    60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa ctaagaatt    120
acaggaagaa agtggttttg aagacagcca aagaaataaa agcagattaa attgtatcag    180
gtacattcca gcctgtttgg aactccataa aaacatttca gattttaatc ccgaatttag    240
ctaagagac  tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc    300
c                                                    301

```

<210> 249  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 249

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gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag    60
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgccc    120
ccagggagac acagcagtga ctcagagctg gtcgcacact gtgcctccct cctcaccgcc    180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag    240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt    300
a                                                    301

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<210> 250  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 250

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ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc    60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc    120
cataagcaca tcagtacttt tctctggctg gaatagtaaa cttaaagtatg gtacatctac    180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta    240
caataaaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaqacc    300
a                                                    301

```

<210> 251  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 251

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gccgaggtcc tacatttggc ccagtttccc cctgcatect ctccagggcc cctgcctcat    60
agacaacctc atagagcata ggagaactgg ttgccctggg gccaggggga ctgtctggat    120
ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct    180
cattgggata aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgaa    240
cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatcct    300
c                                                    301

```

<210> 252  
 <211> 301  
 <212> DNA

<213> Homo sapien

<400> 252

gcaaccaatc	actctgtttc	acgtgacttt	tatcaccata	caatttgtgg	catttcctca	60
ttttctacat	tgtagaatca	agagtgtaaa	taaatgtata	tcgatgtctt	caagaatata	120
tcattccttt	ttcactagga	acccattcaa	aatataagtc	aagaatctta	atatcaacaa	180
atatatcaag	caaactggaa	ggcagaataa	ctaccataat	ttagtataag	tacccaaagt	240
tttataaatc	aaaagcccta	atgataacca	tttttagaat	tcaatcatca	ctgtagaatc	300
a						301

<210> 253

<211> 301

<212> DNA

<213> Homo sapien

<400> 253

ttccctaaga	agatgttatt	ttgttgggtt	ttgttcccc	tccatctcga	ttctcgtacc	60
caactaaaaa	aaaaaaataa	agaaaaaatg	tgctgcgttc	tgaaaaataa	ctccttagct	120
tggtctgatt	gttttcagac	cttaaaatat	aaacttggtt	cacaagcttt	aatccatgtg	180
gatttttttt	cttagagaac	cacaaaacat	aaaaggagca	agtcggactg	aatacctgtt	240
tccatagtgc	ccacagggta	ttcctcacat	tttctccata	ggaaaatgct	ttttcccaag	300
g						301

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

cgctgcgcct	ttcccttggg	ggagggggcaa	ggccagaggg	ggtccaagtg	cagcacgagg	60
aacttgacca	attcccttga	agcgggtggg	ttaaaccctg	taaatgggaa	caaaatcccc	120
ccaaatctct	tcattcttacc	ctggtggact	cctgactgta	gaattttttg	gttgaaacaa	180
gaaaaaaata	aagcttttga	cttttcaagg	ttgcttaaca	ggtactgaaa	gactggcctc	240
acttaaaactg	agccaggaaa	agctgcagat	ttattaatgg	gtgtgttagt	gtgcagtgcc	300
t						301

<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa	60
attactgaaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagt	tgacttggat	120
tgggattttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggagggtg	gaatctttat	aaaaaacaag	agtgattgag	gcagattgta	240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaccac	cccaacacac	300
aa						302

<210> 256

<211> 301

<212> DNA

<213> Homo sapien

<400> 256

<400> 257

<400> 258

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<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G
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<400> 259  
 tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg 60  
 gtgtcctgaa gtgatttgga cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120  
 gcaaagccat aaggaagccc aggatccctt gtgatcagga agtggggccag gaaggctctgt 180  
 tccagctcac atctcatctg catgcagcac ggaccggatg cgcccactgg gtcttggctt 240  
 ccctcccatc ttctcaagca gtgtccttgt tgagccattt gcatccttgg ctccagggtg 300  
 c 301

<210> 260  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 260  
 ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaaatt aagcaatggt 60  
 aaggtgtctt aacttgaaaa agattaggag tcactgggtt acaagttata attgaatgaa 120  
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaacia caggattaac 180  
 tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttaataaac agactgattc 240  
 actgagacat cagtacctgc ccggggcggcc gctcgagccg aattctgcag atatccatca 300  
 c 301

<210> 261  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 261  
 aaatattcga gcaaatcctg taactaatgt gtctccataa aaggctttga actcagtga 60  
 tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggtt 120  
 agcaccaact attccataca attcatcagc aggaaataaa ggctcttcag aagggttcaat 180  
 ggtgacatcc aatttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240  
 ggcatgatga tcatccaaag ccagtggtc acttactcca gactttctgc aatgaagatc 300  
 a 301

<210> 262  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 262  
 gaggagagcc tgttacagca tttgtaagca cagaatactc caggagtatt tgtaattgtc 60  
 tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatcc ctgagtcacc 120  
 cctagacttc cttaaaccaga tctcttgggg ctggaacctg gcaactctgca tttgtaatga 180  
 gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtgcc 240  
 catcattacc cccacattat aatgggtag attcagagca gatactctcc agcaaagaat 300  
 c 301

<210> 263  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 263

tttagcttgt	ggtaaatgac	tcacaaaact	gattttaaaa	tcaagttaat	gtgaattttg	60
aaaattacta	cttaaatccta	attcacata	acaatggcat	taaggtttga	cttgagttgg	120
ttcttagtat	tatttatggg	aaataggctc	ttaccacttg	caaataactg	gccacatcat	180
taatgactga	cttcccagta	aggctctcta	aggggtaagt	angaggatcc	acaggatttg	240
agatgctaag	gccccagaga	tcgtttgatc	caaccctctt	attttcagag	gggaaaatgg	300
g						301

<210> 264

<211> 301

<212> DNA

<213> Homo sapien

<400> 264

aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaascc	60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag	120
gtggatagat	ctagaattgt	aacattttta	gaaaaccata	scatttgaca	gatgagaaag	180
ctcaattata	gatgcaaagt	tataactaaa	ctactatagt	agtaaagaaa	tacatttcac	240
acccttcata	taaattcact	atcttggcct	gaggcactcc	ataaaatgta	tcacgtgcat	300
a						301

<210> 265

<211> 301

<212> DNA

<213> Homo sapien

<400> 265

tgcccaagtt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcattctttgt	60
cttcttgtag	cgcagtattt	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta	120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggaggga	180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag	240
cagtccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg	300
c						301

<210> 266

<211> 301

<212> DNA

<213> Homo sapien

<400> 266

taccgtctgc	ccttctctcc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actctttcct	ctaccacag	gcttgctatg	agcaagagac	acaacctcct	120
ctcttctgtg	ttccagcttc	ttttcctggt	cttcccaccc	cttaagttct	attcctgggg	180
atagagacac	caatacccat	aacctctctc	ctaagcctcc	ttataacca	gggtgcacag	240
cacagactcc	tgacaactgg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300
a						301

<210> 267

<211> 301

<212> DNA

<213> Homo sapien

&lt;400&gt; 267

aaagagcaca	ggccagctca	gcctgccctg	gccatctaga	ctcagcctgg	ctccatgggg	60
gttctcagtg	ctgagtcocat	ccaggaaaag	ctcacctaga	ccttctgagg	ctgaatcttc	120
atcctcacag	gcagcttctg	agagcctgat	attcctagcc	ttgatggctc	ggagtaaagc	180
ctcattctga	ttcctctcct	tcttttcttt	caagttggct	ttcctcacat	ccctctgttc	240
aattcgcttc	agcttgtctg	ctttagccct	catttccaga	agcttcttct	ctttggcatc	300
t						301

&lt;210&gt; 268

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 268

aatgtctcac	tcaactactt	cccagcctac	cgtggcctaa	ttctgggagt	tttcttctta	60
gatcttgga	gagctgggtc	ttctaaggag	aaggaggaag	gacagatgta	actttggatc	120
tcgaagagga	agtctaattg	aagtaattag	tcaacgggtc	ttgttttagac	tcttggaata	180
tgctgggtgg	ctcagtgagc	ccttttgagg	aaagcaagta	ttattcttaa	ggagtaacca	240
cttcccattg	ttctactttc	taccatcatc	aattgtatat	tatgtattct	ttggagaact	300
a						301

&lt;210&gt; 269

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 269

taacaatata	cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagtttaact	120
atagtcacag	accttaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
cttttctgga	tattctttac	aaaatcttat	taaaattcct	ggtattatca	cccccaatta	240
tacagtagca	caaccacctt	atgtagtgtt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

&lt;210&gt; 270

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgctt	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttattttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgctg	gtgcagtgca	tattggataa	cactattcat	ggccgaattg	atcaagtcaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtgggtgca	cgatatactg	cactagataa	240
tggaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggctt	aacagaaaac	300
a						301

&lt;210&gt; 271

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 271  
 aaaaggttct cataagatta acaatttaaa taaatatttg atagaacatt ctttctcatt 60  
 tttatagctc atcttttaggg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120  
 gaattgcaat cacttcatca gcctgtattc gtcaccaattc tctataaagt gggccaagg 180  
 tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240  
 tctctcctcc agatganaac tgatcatgcg cccacatttt gggttttata gaagcagtca 300  
 c 301

<210> 272  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 272  
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60  
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120  
 tccaataatt ccctcatgat gagcaagaaa aattctttgc gcacccctcc tgcattccaca 180  
 gcatcttctc caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttgttttc 240  
 ctaaggactt ccattgcatc tcctacaata ttttctctac gcaccactag aattaagcag 300  
 g 301

<210> 273  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 273  
 acatgtgtgt atgtgtatct ttgggaaaan aanaagacat cttgtttayt atttttttgg 60  
 agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120  
 gaaccgtcta aaaataaaat ttaccatgtc dtatattcct tatagtatgc ttatttcacc 180  
 ttytttctgt ccagagagag tatcagtgac ananatttma ggggtgaamac atgmattggt 240  
 gggacttnty tttacngagm accctgcccg sgcgcctcg makengantt ccgcsananc 300  
 t 301

<210> 274  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 274

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<210> 275
<211> 301
<212> DNA
<213> Homo sapien
```

<400>	275						
gtcag	cagcacgtgg	cattgaacat	tgcaatgtgg	agcccaaacc	acagaaaatg		60
aaatt	ggccaacttt	ctattaactt	atgttgggca	ttttgccacc	aacagtaagc		120
cttct	aataaaagaa	aattgaaagg	tttctcacta	aacggaatta	agtagtggag		180
agact	cccaggcctc	agcgtacctg	cccggggcgc	cgctcgaagc	cgaattctgc		240
tccat	cacactggcg	gncgctcgan	catgcatcta	gaaggnccaa	ttcgccctat		300
							301

```
<210> 276
<211> 301
<212> DNA
<213> Homo sapien
```

<400>	276						
acata	ctcaataaat	aaatgactgc	attgtggtat	tattactata	ctgattatat		60
atgtg	acttctaatt	agaaaatgta	tccaaaagca	aaacagcaga	tatacaaaat		120
agaca	gaagatagac	attaacagat	aaggcaactt	atacattgag	aatccaaatc		180
cattt	aaacatttgg	gaaatgaggg	ggacaaatgg	aagccagatc	aaatttgtgt		240
tattc	agtatgtttc	ccttgcttca	tgtctgagaa	ggctctcctt	caatggggat		300
							301

```
<210> 277
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
```

<400> 277						
tttgttgatg	tcagtatttt	attacttgcg	ttatgagtgc	tcacctggga	aattctaaag	60
atacagagga	cttgaggaa	gcagagcaac	tgaatttaat	ttaaaagaag	gaaaacattg	120
gaatcatggc	actcctgata	ctttcccaa	tcaacactct	caatgcccca	cctcgtcct	180
caccatatag	gggagactaa	agtggccacg	gatttgcctt	angtgtgcag	tcggttctga	240
gttcnctgtc	gattactctc	gaccagcttc	ctttttccga	agtccttcgg	ttcaatcttg	300

c

301

<210> 278  
 <211> 301  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 278  
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60  
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgta 120  
 cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180  
 aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacagggtt 240  
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300  
 c 301

<210> 279  
 <211> 301  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 279  
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60  
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120  
 ttagaccttt accttcacgc caccacacag tgcttgatat ttcagagtca gtcattgggt 180  
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240  
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300  
 a 301

<210> 280  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 280  
 ggtactggag ttttctctcc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60  
 tagaaagggt gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120  
 tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180  
 gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga 240  
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300  
 t 301

<210> 281  
 <211> 301  
 <212> DNA

<213> Homo sapien

<400> 281

aggtacaaga	aggggaatgg	gaaagagctg	ctgctgtggc	attgttcaac	ttggatatc	60
gccgagcaat	ccaaatcctg	aatgaagggg	catcttctga	aaaaggagat	ctgaatctca	120
atgtggtagc	aatggcttta	tggggttata	cggatgagaa	gaactccctt	tgagagagaa	180
tgtgtagcac	actgcgatta	cagctaaata	accggtat	gtgtgtcatg	tttgcatttc	240
tgacaagtga	aacaggatct	tacgatggag	ttttgtatga	aaacaaagt	gcagtacctc	300
g						301

<210> 282

<211> 301

<212> DNA

<213> Homo sapien

<400> 282

caggtactac	agaattaaaa	tactgacaag	caagtagttt	cttggcgtgc	acgaattgca	60
tccagaaccc	aaaaattaag	aaattcaaaa	agacattttg	tgggcacctg	ctagcacaga	120
agcgcagaag	caaagcccag	gcagaaccat	gctaacctta	cagctcagcc	tgacacagaag	180
cgcagaagca	aagcccaggc	agaaccatgc	taaccttaca	gctcagcctg	cacagaagcg	240
cagaagcaaa	gcccaggcag	aacatgctaa	ccttacagct	cagcctgcac	agaagcacag	300
a						301

<210> 283

<211> 301

<212> DNA

<213> Homo sapien

<400> 283

atctgtatac	ggcagacaaa	ctttatarag	tgtagagagg	tgagcgaaag	gatgcaaaag	60
cactttgagg	gctttataat	aatatgctgc	ttgaaaaaaa	aaatgtgtag	ttgatactca	120
gtgcattctc	agacatagta	aggggttgct	ctgaccaatc	aggtgatcat	tttttctatc	180
acttcccagg	ttttatgcaa	aaattttggt	aaattctata	atggtgatat	gcattcttta	240
ggaaacatat	acatttttta	aaatctattt	tatgtaagaa	ctgacagacg	aatttgcttt	300
g						301

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

<400> 284

caggtacaaa	acgctattaa	gtggcttaga	atttgaacat	ttgtggtctt	tatttacttt	60
gcttcgtgtg	tgggcaaagc	aacatcttcc	ctaaatatat	attaccaaga	aaagcaagaa	120
gcagattagg	tttttgacaa	aacaaacagg	ccaaaagggg	gctgacctgg	agcagagcat	180
ggtgagaggc	aaggcatgag	agggcaagtt	tgttgtggac	agatctgtgc	ctactttatt	240
actggagtaa	aagaaaacaa	agttcattga	tgtcgaagga	tatatacagt	gttagaaatt	300
a						301

<210> 285

<211> 301

<212> DNA

<213> Homo sapien

$\langle 223 \rangle$  n = A, T, C or G

acatcaccat	gatcggaacc	cccacccatt	atacgttgta	tgtttacata	aatactcttc	60
aatgatcatt	agtgttttaa	aaaaaatact	gaaaactcct	tctgcatccc	aatctctaac	120
caggaaagca	aatgctattt	acagacctgc	aagccctccc	tcaaacnaaa	ctattttctgg	180
attaaatatg	tctgactttc	tttgaggtca	cacgactagg	caaatgctat	ttacgatctg	240
caaaagctgt	ttgaagagtc	aaagccccc	tgtgaacacg	atttctggac	cctgtaacag	300
t						301

<213> Homo sapien

taccactgca	ttccagcctg	ggtgacagag	tgagactccg	tctccaaaaa	aaactttgct	60
tgtatattat	ttttgcctta	cagtggatca	ttctagtagg	aaaggacagt	aagatttttt	120
atcaaaatgt	gtcatgccag	taagagatgt	tatattcttt	tctcatttct	tccccacca	180
aaaataagct	accatatagc	ttataagtct	caaatttttg	ccttttacta	aaatgtgatt	240
gtttctgttc	attgtgtatg	cttcacacc	tatattaggc	aaattccatt	ttttcccttg	300
t						301

<213> Homo sapien

tacagatctg	ggaactaaat	attaaaaatg	agtgtggctg	gatatatgga	gaatgttggg	60
cccagaagga	acgtagagat	cagatattac	aacagcttgg	ttttgagggg	tagaaatatg	120
aaatgatttg	gttatgaacg	cacagtttag	gcagcagggc	cagaatcctg	accctctgcc	180
ccgtggttat	ctcctcccca	gcttggctgc	ctcatgttat	cacagtattc	cattttgttt	240
gttgcatgtc	ttgtgaagcc	atcaagattt	tctcgtctgt	tttcctctca	ttggtaatgc	300
t						301

<213> Homo sapien

gtacaccta	ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatag	aagacaaatt	ccagttccag	ctcagttctg	gtatctgcaa	agctgcaaaa	120
gatcttttaa	gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatac	180
aaaagcatct	gctttttgtg	tttaattttag	ctcatctggc	cactggaaga	atccaaacag	240
tctgccttaa	ttttggatga	atgcatgatg	gaaattcaat	aatttagaaa	gttaaaaaaa	300
a						301

$\langle 211 \rangle$  301



<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 289  
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtctcc tggaaactta 60  
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120  
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180  
cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggccggcgaan aagagaaaga 240  
tgtgttttgt tttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300  
a 301

<210> 290  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 290  
acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60  
tgactgatct gttcatttct ctcacagctc ttacccccaa aagcttttcc accctaagtg 120  
ttctgacctc cttttctaata acagtaggg atagaggcag anccacctac aatgaacatg 180  
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240  
tgccttgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtgc 300  
a 301

<210> 291  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 291  
caggtaccaa tttcttctat cctagaaaca tttcatttta tgttggtgaa acataacaac 60  
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120  
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180  
agccatggct gtttacttca tttaatttat ttagcataaa gacattatga aaaggcctaa 240  
acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300  
a 301

<210> 292  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 292

accttttagt	agtaatgtct	aataataaat	aagaaatcaa	ttttataagg	tccatatagc	60
tgtattaaat	aatttttaag	tttaaaagat	aaaataccat	catttttaaat	gttggtattc	120
aaaaccaaag	natataaccg	aaaggaaaaa	cagatgagac	ataaaatgat	ttgcnagatg	180
ggaaatatag	tasttyatga	atgttnatta	aattccagtt	ataatagtgg	ctacacactc	240
tcactacaca	cacagacccc	acagtcctat	atgccacaaa	cacatttcca	taacttgaaa	300
a						301

<210> 293

<211> 301

<212> DNA

<213> Homo sapien

<400> 293

ggtaccaagt	gctggtgcca	gcctgttacc	tgtttctact	gaaaagtctg	gctaattgctc	60
ttgtgtagtc	acttctgatt	ctgacaatca	atcaatcaat	ggcctagagc	actgactgtt	120
aacacaaaacg	tcactagcaa	agtagcaaca	gcttttaagtc	taaatacaaa	gctgtttctgt	180
gtgagaattt	tttaaaaaggc	tactttgtata	ataacccttg	tcatttttta	tgtacctcgg	240
ccgcgaccac	gctaagccga	attctgcaga	tatccatcac	actggcgggc	gctcgagcat	300
g						301

<210> 294

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 294

tgacccataa	caatatacac	tagctatctt	tttaactgtc	catcattagc	accaatgaag	60
attcaataaa	attaccttta	ttcacacatc	tcaaaacaat	tctgcaaatt	cttagtgaag	120
tttaactata	gtcacaganc	ttaaatatcc	acattgtttt	ctatgtctac	tgaaaataag	180
ttcactactt	ttctgggata	ttcttttaca	aatcttatta	aaattcctgg	tattatcacc	240
cccaattata	cagtagcaca	accaccttat	gtagttttta	catgatagct	ctgtagaggt	300
t						301

<210> 295

<211> 305

<212> DNA

<213> Homo sapien

<400> 295

gtactctttc	tctcccctcc	tctgaattta	attctttcaa	cttgcaattt	gcaaggatta	60
cacatttcac	tgtgatgtat	attgtgttgc	aaaaaaaaaa	gtgtctttgt	ttaaaattac	120
ttggtttgtg	aatccatctt	gctttttccc	catttggaact	agtcattaac	ccatctctga	180
actggtagaa	aaacrtctga	agagctagtc	tatcagcatc	tgacaggtga	attggatggg	240
tctcagaacc	atttcaccca	gacagcctgt	ttctatcctg	tttaataaat	tagtttgggt	300
tctct						305

<210> 296  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 296  
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60  
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120  
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180  
 tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240  
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300  
 c 301

<210> 297  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(300)  
 <223> n = A,T,C or G

<400> 297  
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60  
 aaggttttga aaaccttgaa ggagaatcat tttgacaaga agtacttaag agtctagaga 120  
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180  
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240  
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc aactggcg 300

<210> 298  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 298  
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60  
 ggcattctgag agacctgtg ttccagtgtt tctggaaatg ggtcccagtg ccgcgggtg 120  
 tgaagctctc agatcaatca cggaagggc ctggcggtgg tggccacctg gaaccacct 180  
 gtccctgtctg tttacatttc actaycagg tttctctggg cattacnatt tgttccccta 240  
 caacagtgc ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg 300  
 t 301

<210> 299  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 299

gttttgagac	ggagttttcac	tcttggtgcc	cagactggac	tgcaatggca	gggtctctgc	60
tcactgcacc	ctctgcctcc	caggttcgag	caattctcct	gcctcagcct	cccaggtagc	120
tgggattgca	ggctcacgcc	accataccca	gctaattttt	ttgtattttt	agtagagacg	180
gagtttcgcc	atgttgGCCa	gctgggtctca	aaactcctgac	ctcaagcgac	ctgcctgcct	240
cggcctccca	aagtgtctgga	attataggca	tgagtcaaca	cgcccagcct	aaagatatatt	300
t						301

&lt;210&gt; 300

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 300

attcagtttt	atttgcTgcc	ccagtatctg	taaccaggag	tgccacaaaa	tcttgccaga	60
tatgtccca	acccactggg	aaaggctccc	acctggctac	ttcctctatc	agctgggtca	120
gctgcattcc	acaaggTtct	cagcctaata	agtttcacta	cctgccagtc	tcaaaactta	180
gtaaagcaag	accatgacat	tccccacgg	aaatcagagt	ttgcccacc	gtcttgTtac	240
tataaagcct	gcctctaaca	gtccttgctt	cttcacacca	atcccgagcg	catcccccat	300
g						301

&lt;210&gt; 301

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 301

ttaaattttt	gagaggataa	aaaggacaaa	taatctagaa	atgtgtcttc	ttcagtctgc	60
agaggacccc	aggtctccaa	gcaaccacat	ggtcaagggc	atgaataatt	aaaagttggt	120
gggaactcac	aaagaccctc	agagctgaga	caccacaaac	agtgggagct	cacaaagacc	180
ctcagagctg	agacaccac	aacagtggga	gctcaciaag	accctcagag	ctgagacacc	240
cacaacagca	cctcgTtcag	ctgccacatg	tgtgaataag	gatgcaatgt	ccagaagtgt	300
t						301

&lt;210&gt; 302

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 302

aggtacacat	ttagcttgTg	gtaaatgact	cacaaaactg	attttaaaat	caagttaatg	60
tgaattttga	aaattactac	ttaatcctaa	ttcacaataa	caatggcatt	aaggtttgac	120
ttgagttggt	tcttagtatt	atztatggta	aataggctct	taccacttgc	aaataactgg	180
ccacatcatt	aatgactgac	ttcccagtaa	ggctctctaa	ggggtaagta	ggaggatcca	240
caggatttga	gatgctaagg	ccccagagat	cgtttgatcc	aaccctctta	ttttcagagg	300
g						301

&lt;210&gt; 303

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 303

aggtaccaac	tgtggaaata	ggtagaggat	cattttttct	ttccatatca	actaagttgt	60
------------	------------	------------	------------	------------	------------	----

atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac 120  
 tggctaattg aactaccgct tgcattgtaa aaatgggtgg ttgtgaaatg atcataggcc 180  
 agtaacgggt atgtttttct aactgatctt ttgtcgttc caaagggacc tcaagacttc 240  
 catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300  
 c 301

<210> 304  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 304  
 acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt 60  
 tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc 120  
 ctttttagtg tatcatatca ggaatcatct cacattgggt tgtgccatta ctgggtgcagt 180  
 gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga 240  
 ttttcccttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct 300  
 c 301

<210> 305  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 305  
 gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag 60  
 cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggcg 120  
 taaaggagga gaaacagata caaatctcc aactcagtat taaggatttc tcatgcctag 180  
 aatattggta gaaacaagaa tacattcata tggcaataaa ctaaccatgg tggaaacaaaa 240  
 ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag 300  
 a 301

<210> 306  
 <211> 8  
 <212> PRT  
 <213> Homo sapien

<400> 306  
 Val Leu Gly Trp Val Ala Glu Leu  
 1 5

<210> 307  
 <211> 637  
 <212> DNA  
 <213> Homo sapien

<400> 307  
 acagggratg aagggaagg gagaggatga ggaagcccc ctggggattt ggtttgggtcc 60  
 ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac 120

attgaggaat	gatacttgag	cccaaagagc	attcaatcat	tgttttat	gccttmttt	180
cacaccattg	gtgagggagg	gattaccacc	ctggggttat	gaagatggtt	gaacacccca	240
cacatagcac	cggagatatg	agatcaacag	tttcttagcc	atagagattc	acagcccaga	300
gcaggaggac	gcttgacac	catgcaggat	gacatggggg	atgcgctcgg	gattggtgtg	360
aagaagcaag	gactgttaga	ggcaggcttt	atagtaacaa	gacggtgggg	caaactctga	420
tttccgtggg	ggaatgtcat	ggtcttgctt	tactaagttt	tgagactggc	aggtagtgaa	480
actcattagg	ctgagaacct	tgtggaatgc	acttgaccca	sctgatagag	gaagtagcca	540
ggtgggagcc	tttcccagtg	ggtgtggggc	atatctggca	agattttgtg	gcactcctgg	600
ttacagatac	tggggcagca	aataaaaactg	aatcttg			637

&lt;210&gt; 308

&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(647)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 308

acgattttca	ttatcatgta	aatcgggtca	ctcaaggggc	caaccacagc	tgggagccac	60
tgctcagggg	aaggttcata	tgggactttc	tactgcccaa	ggttctatac	aggatataaa	120
ggngcctcac	agtatagatc	tggtagcaaa	gaagaagaaa	caaacactga	tctctttctg	180
ccacccctct	gacccttttg	aactcctctg	accctttaga	acaagcctac	ctaatactctg	240
ctagagaaaa	gaccaacaac	ggcctcaaa	gatctcttac	catgaaggtc	tcagctaatt	300
cttggctaag	atgtgggttc	cacattaggt	tctgaatatg	gggggaaggg	tcaatttgct	360
cattttgtgt	gtggataaag	tcaggatgcc	caggggccag	agcagggggc	tgcttgcttt	420
gggaacaatg	gctgagcata	taaccatagg	ttatggggaa	caaaacaaca	tcaaagtcac	480
tgtatcaatt	gccatgaaga	cttgagggg	ctgaatctac	cgattcatct	taaggcagca	540
ggaccagttt	gagtggaac	aatgcagcag	cagaatcaat	ggaaacaaca	gaatgattgc	600
aatgtccttt	ttttctcct	gcttctgact	tgataaaagg	ggaccgt		647

&lt;210&gt; 309

&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 309

actttatagt	ttaggctgga	cattggaaaa	aaaaaaaagc	cagaacaaca	tgtgatagat	60
aatatgattg	gctgcacact	tccagactga	tgaatgatga	acgtgatgga	ctattgtatg	120
gagcacatct	tcagcaagag	ggggaaatac	tcatcatttt	tggccagcag	ttgtttgatc	180
accaaacatc	atgccagaat	actcagcaaa	ccttcttagc	tcttgagaag	tcaaagtcg	240
ggggaattta	ttcctggcaa	ttttaattgg	actccttatg	tgagagcagc	ggctaccag	300
ctgggggtgt	ggagcgaacc	cgtcactagt	ggacatgcag	tggcagagct	cctggtaacc	360
acctagagga	atacacaggc	acatgtgtga	tgccaagcgt	gacacctgta	gcactcaaat	420
ttgtcttggt	tttgtctttc	ggtgtgtaag	attcttaagt			460

&lt;210&gt; 310

&lt;211&gt; 539

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 310

```

acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg      60
ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt      120
taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa      180
gtcagacagt aagatttgtg ggaaatgggt tggtttggtg tatggatgtg attttagcaa      240
taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa      300
ttcctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac      360
ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac      420
atgattatgt cattacatgt atggtagtga tggggatgat aggaaggaag aacttatggc      480
atattttcac cccacaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga      539

```

```

<210> 311
<211> 526
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G

```

```

<400> 311
caaatTTgag ccaatgacat agaattttac aaatcaagaa gcttattctg gggccatttc      60
ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta      120
catttacagc atttaaaatg tgttcagcat gaaatattag ctacagggga agctaaataa      180
attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg      240
tttttcacaa gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa      300
aaaaatgggga aactctgaag ggTTTTaagt atcttacctg aagctacaga ctccataacc      360
tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc      420
acagcaagag cttctcatct aaaccctttc cttttttagt atctgtgtat caagtataaa      480
agttctataa actgtagtnt acttatttta atccccaaag cacagt                    526

```

```

<210> 312
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 312
cctctctctc cccaccccct gactctagag aactgggttt tctcccagta ctccagcaat      60
tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct      120
ccattttctct ttcccttcca cctgccagtt ttgctgactc tcaacttgtc atgagtgtaa      180
gcattaagga cattatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg      240
gcttcttagg aaaatatTTT tcttccaaaa tcagtaggaa atctaaactt atccccctct      300
tgcagatgtc tagcagcttc agacatttgg ttaagaacct atgggaaaaa aaaaaatcct      360
tgctaagtgt gtttcccttg taaaccanga ttcttatttg notggatatg aatatcagct      420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt      480
tagtcttaat tatctattgg                    500

```

```

<210> 313
<211> 718

```

```
<220>  
<221> misc_feature  
<222> (1)...(718)  
<223> n = A,T,C or G
```

<400>	313						
ggagatttgt	gtggtttgca	gccgagggag	accaggaaga	tctgcatggt	gggaaggacc		60
tgatgataca	gaggtgagaa	ataagaaagg	ctgctgactt	taccatctga	ggccacacat		120
ctgctgaaat	ggagataatt	aacatcacta	gaaacagcaa	gatgacaata	taatgtctaa		180
gtagtacat	gtttttgcac	atttccagcc	cttttaaata	tccacacaca	caggaagcac		240
aaaaggaagc	acagagatcc	ctgggagaaa	tgcccggccg	ccatcttggg	tcatcgatga		300
gcctcgccct	gtgcctgntc	ccgcttgtga	gggaaggaca	ttagaaaatg	aattgatgtg		360
ttccttaaag	gatggcagga	aaacagatcc	tgttgtgga	atttatttga	acgggattac		420
agatttgaaa	tgaagtcaca	aagtgagcat	taccaatgag	aggaaaacag	acgagaaaaat		480
cttgatggtt	cacaagacat	gcaacaacaa	aaatggaata	ctgtgatgac	acgagcagcc		540
aactggggag	gagataccac	ggggcagagg	tcaggattct	ggccctgctg	cctaactgtg		600
cgttatacca	atcatttcta	tttctaccct	caaacaagct	gtngaatatc	tgacttacgg		660
ttcttntggc	ccacattttc	atnatccacc	ccntcntttt	aannttantc	caaaantgt		718

```
<210> 314
<211> 358
<212> DNA
<213> Homo sapien
```

<400> 314						
gtttattttac	attacagaaa	aaacatcaag	acaatgtata	ctattttcaaa	tatatccata	60
cataatcaaa	tatagctgta	gtacatgttt	tcattgggtg	agattaccac	aaatgcaagg	120
caacatgtgt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	tgtagtccaa	180
gctctcggta	gtccagccac	tgtgaaacat	gctcccttta	gattaacctc	gtggacgctc	240
ttgttgtatt	gctgaactgt	agtgcctgt	atthttgctt	tgtctgtgaa	ttctgttgct	300
tctggggcat	ttccttgtga	tgcagaggac	caccacacag	atgacagcaa	tctgaatt	358

```
<210> 315
<211> 341
<212> DNA
<213> Homo sapien
```

<400>	315						
taccacctcc	ccgctggcac	tgatgagccg	catcaccatg	gtcaccagca	ccatgaaggc		60
ataggtgatg	atgaggacat	ggaatgggcc	cccaaggatg	gtctgtccaa	agaagcgagt		120
gaccccatc	ctgaagatgt	ctggaacctc	taccagcagg	atgatgatag	ccccaatgac		180
agtcaccagc	tccccgacca	gccggatatc	gtccttaggg	gtcatgtagg	cttcctgaag		240
tagcttctgc	tgtaagaggg	tgttgctccg	ggggctcgtg	cggttattgg	tcctgggctt		300
gagggggcgg	tagatgcagc	acatggtgaa	gcagatgatg	t			341

```
<210> 316
<211> 151
<212> DNA
<213> Homo sapien
```

<400> 316



```
<210> 317
<211> 151
<212> DNA
<213> Homo sapien
```

```
<210> 318
<211> 151
<212> DNA
<213> Homo sapien
```

```
<210> 319
<211> 151
<212> DNA
<213> Homo sapien
```

```
<210> 320
<211> 150
<212> DNA
<213> Homo sapien
```

```
<210> 321
<211> 151
<212> DNA
<213> Homo sapien
```

<400>	321						
agcaactttg	tttttcatcc	aggttatttt	aggcttagga	tttctctca	cactgcagtt		60
tagggtggca	ttgtaaccag	ctatggcata	ggtgttaacc	aaaggctgag	taaacatggg		120
tgcctctgag	aatcaaaagt	cttcatacac	t				151

```
<220>  
<221> misc_feature  
<222> (1)...(151)  
<223> n = A,T,C or G
```

```
<210> 323
<211> 151
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G
```

```
<210> 324
<211> 461
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G
```

```
<210> 325
<211> 400
<212> DNA
<213> Homo sapien
```

&lt;400&gt; 325

acactgtttc	catgttatgt	ttctacacat	tgctacctca	gtgctcctgg	aaacttagct	60
tttgatgtct	ccaagtagtc	caccttcatt	taactctttg	aaactgtatc	atctttgcca	120
agtaagagtg	gtggcctatt	tcagctgctt	tgacaaaatg	actggctcct	gacttaacgt	180
tctataaatg	aatgtgctga	agcaaagtgc	ccatgggtggc	ggcgaagaag	agaaagatgt	240
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&lt;210&gt; 326

&lt;211&gt; 1215

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 326

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&lt;210&gt; 327

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 327

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70

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<212> DNA
<213> Homo sapien
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&lt;211&gt; 3030

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 333

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&lt;210&gt; 334

&lt;211&gt; 2417

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 334

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&lt;211&gt; 2984

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 335

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<212> PRT
<213> Homo sapien
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<212> PRT
<213> Homo sapien
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<211> 9
<212> PRT
<213> Homo sapien
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<210> 339  
 <211> 318  
 <212> PRT  
 <213> Homo sapien

<400> 339

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			20					25					30		
Cys	Thr	Ser	Thr	Val	Gln	Leu	Pro	Gly	Lys	Val	Val	Val	Val	Thr	Gly
		35					40					45			
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Val	Ala	Lys	Glu	Ile	Gln	Thr	Thr	Thr	Gly	Asn	Gln	Gln	Val	Leu	Val
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Arg	Lys	Leu	Asp	Leu	Ser	Asp	Thr	Lys	Ser	Ile	Arg	Ala	Phe	Ala	Lys
			100					105					110		
Gly	Phe	Leu	Ala	Glu	Glu	Lys	His	Leu	His	Val	Leu	Ile	Asn	Asn	Ala
			115				120						125		
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						135					140				
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145					150					155					160
Leu	Glu	Lys	Leu	Lys	Glu	Ser	Ala	Pro	Ser	Arg	Ile	Val	Asn	Val	Ser
				165					170					175	
Ser	Leu	Ala	His	His	Leu	Gly	Arg	Ile	His	Phe	His	Asn	Leu	Gln	Gly
			180					185					190		
Glu	Lys	Phe	Tyr	Asn	Ala	Gly	Leu	Ala	Tyr	Cys	His	Ser	Lys	Leu	Ala
		195					200					205			
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225					230					235					240
Arg	His	Ser	Ser	Phe	Met	Arg	Trp	Met	Trp	Trp	Leu	Phe	Ser	Phe	Phe
				245					250					255	
Ile	Lys	Thr	Pro	Gln	Gln	Gly	Ala	Gln	Thr	Ser	Leu	His	Cys	Ala	Leu
			260					265					270		
Thr	Glu	Gly	Leu	Glu	Ile	Leu	Ser	Gly	Asn	His	Phe	Ser	Asp	Cys	His
		275					280					285			
Val	Ala	Trp	Val	Ser	Ala	Gln	Ala	Arg	Asn	Glu	Thr	Ile	Ala	Arg	Arg
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 <212> DNA  
 <213> Homo sapien

<400> 340

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<212> DNA
<213> Homo sapien
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<212> DNA
<213> Homo sapien
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<212> DNA
<213> Homo sapien
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 gtttagggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180  
 agtctttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc 240  
 caccttcattg tgcctgaatg gttgccaggt cagaaaaatc cacccttac gaggcggt 300  
 tcgacctat atccccgcgc cgcgtccctt tctccataaa attcttctta gtagctatta 360  
 ccttcttatt atttgatcta gaaattgccc tccttttacc cctaccatga gccctacaaa 420  
 caactaacct gccactaata gttatgtcat ccctcttatt aatcatcatc ctagccctaa 480  
 gtctggccta tgagtgaact caaaaaggat tagactgagc cgaataacaa aaaaaa 536

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 <211> 251  
 <212> DNA  
 <213> Homo sapien

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 gcgtgggcca ggaaatcaca tctacactg cccaggagcc agacacattt atggaacaga 180  
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 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <222> (1)...(282)  
 <223> n = A,T,C or G

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 agggagacta tacctggctc ttgccctaag tgagaggtct tccctccgc accaaaaat 180  
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<210> 347  
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 <212> DNA  
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<220>  
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 <223> n = A,T,C or G

&lt;400&gt; 347

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tctgagactg	actggaccca	cccagaccca	gggcaaagat	acatgttacc	atatcatctt	180
tataaagaat	ttttttttgt	c				201

&lt;210&gt; 348

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 348

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gccctgcctc	c					251

&lt;210&gt; 349

&lt;211&gt; 251

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 349

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actcctggtt	t					251

&lt;210&gt; 350

&lt;211&gt; 908

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 350

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<211> 251

<212> DNA

<400> 352

<210> 353

<211> 436

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<400> 353

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<212> DNA

<400> 354

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gtgagtga	gatccccatt	ataggagcac	ttgggagaga	tcatataaaa	gctgactc	420
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&lt;210&gt; 355

&lt;211&gt; 676

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 355

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&lt;210&gt; 356

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 356

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&lt;210&gt; 357

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 357

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araarataag	tgttatatgg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
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 <212> DNA  
 <213> Homo sapien

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 <212> DNA  
 <213> Homo sapien

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 <212> DNA  
 <213> Homo sapien

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<400> 364

<210> 365

<211> 356

<212> DNA

<213> Homo sapien

<400> 365

&lt;210&gt; 366

<211> 1851

<212> DNA

<213> Homo sapien

<400> 366

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cagcaagtat	gagagcagtt	cttccatata	tatccagcgc	atttaaattc	gcttttttct	420
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&lt;210&gt; 367

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 367

cttgagcttc	caaataygga	agactggccc	ttacacasgt	caatgttaaa	atgaatgcat	60
ttcagtattt	tgaagataaa	atrrtagat	ctataccttg	ttttttgatt	cgatatcagc	120
accrtataag	agcagtgcct	tggccattaa	tttatctttc	atrrtagaca	gcrtagtgya	180
gagtgggtatt	tccataactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240
acgcacattc	atcttctctgg	cattgtacgg	cctgtcagta	ttagacccaa	aaacaaatta	300
catatcttag	gaattcaaaa	taacattcca	cagctttcac	caactagtta	tatttaaagg	360
agaaaactca	tttttatgcc	atgtattgaa	atcaaaccoca	cctcatgctg	atatagttgg	420
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cgtctgtcca	gcaggagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	540
gcagtcctat	gagagtgcga	agacttttta	ggaaattgta	gtgcactagc	tacagccata	600
gcaatgattc	atgtaactgc	aaacactgaa	tagcctgcta	ttactctgcc	ttcaaaaaaa	660
aaaaaaaa						668

&lt;210&gt; 368

&lt;211&gt; 1512

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 368

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taaaaaacag	taatagatac	gaggtgatgc	gcctgtcagt	ggcaagggtt	aagatatttc	1500
tgatctcgtg	cc					1512

&lt;210&gt; 369

&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 369

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tgggctgggc	trgaatcccc	tgctgggggt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggt	gaaactggtt	ggtagacgcg	180
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&lt;210&gt; 370

&lt;211&gt; 2184

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 370

ggcacagagaa	ttaaaaccct	cagcaaaaaca	ggcatagaag	ggacatacct	taaagtaata	60
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ctcaaaaaaa	aaaaaaaaaa	aaaaa				2184

&lt;210&gt; 371

&lt;211&gt; 1855

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1855)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 371

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tacgaggtga	tgcgcctgtc	agtggcaagg	tttaagatat	ttctgatctc	gtgcc	1855

&lt;210&gt; 372

&lt;211&gt; 1059

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 372

gcaacgtggg	cacttctgga	gaccacaacg	actcctctgt	gaagacgctt	gggagcaaga	60
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gcgcttgrgg	agactmcgat	gacagygcct	tcatggagcc	caggtaccac	gtccgtggag	180
aagatctgga	caagctccac	agagctgccc	tgggtgggta	aagtccccag	aaaggatctc	240
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&lt;210&gt; 373

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 373

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gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaaa	tgtctcaaga	1140
accagaaata	aataa					1155

&lt;210&gt; 374

&lt;211&gt; 2000

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 374

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<210> 375
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<212> DNA
<213> Homo sapien
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<210>	376
<211>	329



<213> Homo sapien

<400> 376

<210> 377

<211> 148

&lt;212&gt; PRT

<213> Homo sapien

$\langle 220 \rangle$

## <221> VARIANT

&lt;222&gt; (1)...(148)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 377

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Trp	Thr	Ser	Ser	Thr	Glu	Leu	Pro	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys
		20						25					30		
Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Xaa	Asp	Lys
		35					40					45			
Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu
	50					55					60				
Val	Val	Lys	Leu	Xaa	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp
65					70					75					80
Asn	Lys	Lys	Arg	Thr	Ala	Leu	Xaa	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp
			85						90					95	
Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro
			100					105					110		
Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Xaa	Tyr	Asn	Glu	Asp
		115					120					125			
Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser
	130					135					140				
Lys	Asn	Lys	Val												
145															

&lt;210&gt; 378

&lt;211&gt; 1719

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 378

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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
		20						25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70				75						80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
			85						90				95		
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
			165						170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu

F00240:03450

[illegible]

610	615	620
Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys		
625	630	635
Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys		
	645	650
Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys		
	660	665
Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala		
	675	680
Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly		
	690	695
Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser		
705	710	715
Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser		
	725	730
His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln		
	740	745
Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys		
	755	760
Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser		
	770	775
Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp		
785	790	795
Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly		
	805	810
Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn		
	820	825
Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe		
	835	840
Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser		
	850	855
Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn		
865	870	875
Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu		
	885	890
Glu Gly Ser Glu Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile		
	900	905
Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn		
	915	920
Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro		
	930	935
Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu		
945	950	955
Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe		
	965	970
Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His		
	980	985
Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser		
	995	1000
Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu		
	1010	1015
Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His		
1025	1030	1035
Gln Ser Gln Leu Pro Arg Thr His Met Val Val Glu Val Asp Ser Met		

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 Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met  
 1060 1065 1070  
 Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys  
 1075 1080 1085  
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr  
 1090 1095 1100  
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys  
 1105 1110 1115 1120  
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp  
 1125 1130 1135  
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His  
 1140 1145 1150  
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp  
 1155 1160 1165  
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg  
 1170 1175 1180  
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val  
 1185 1190 1195 1200  
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys  
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 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly  
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 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn  
 1235 1240 1245  
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys  
 1250 1255 1260  
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro  
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 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly  
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 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn  
 1445 1450 1455  
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser  
 1460 1465 1470  
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly





Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr
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			580					585					590		
Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln
		595					600					605			
Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys
	610					615					620				
Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu	Arg	Glu	Glu	Ile
625					630					635					640
Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His	Gln	Ser	Gln	Leu
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&lt;210&gt; 380

&lt;211&gt; 671

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 380

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70				75					80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155				160	
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
			165						170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
		180					185						190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
			245						250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val

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&lt;400&gt; 381

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&lt;210&gt; 382

&lt;211&gt; 3279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

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<212> PRT
<213> Homo sapiens
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<210> 384

<211> 557  
 <212> DNA  
 <213> Homo sapiens

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 ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480  
 tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540  
 aaaaaaaaaa aaaaaaa 557

<210> 385  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 385  
 ttcccagggtg atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60  
 gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120  
 tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180  
 aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240  
 tatcagacag gtccagtttc cgcaccaaca cctgctggtt ccctgtcgtg gtctggatct 300  
 ctttggccac caattcccc ttttccacat cccggca 337

<210> 386  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<400> 386  
 gggcccgtcta ccggcccagg ccccgccctcg cgagtccctc tccccgggtg cctgcccgca 60  
 gccgcgtcgg ccagaggggt gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120  
 ggcaccttgg ccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcggcggc 180  
 ggggactttg cccggtgtgt ggggcgagc ggactgctg tccgcggacg ggcagcgaag 240  
 atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 387  
 gggccgagtc gggcaccaag ggactctttg caggcttctt tcctcggatc atcaaggctg 60  
 cccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120  
 tgaaccagga ccggttctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180  
 ccacggatgg ggagagggca ggaggagacc cagccaagt ccttttctc agcactgagg 240  
 gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggt gtccctctgg 300  
 gcggcccagc acttctcag acacaacttc ttctgtctgc tccagtcgtg gggatcatca 360  
 cttaccacc cccaagtgc aagaccaaat cttccagctg ccccttctg gtttccctgt 420

gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480  
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

<210> 388  
<211> 520  
<212> DNA  
<213> Homo sapiens

<400> 388  
aggataatTT ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60  
tgaggTTaaa ccagtttgca ttcccctaata gtggaaaaag taagaggact actcagcact 120  
gtttgaagat tgcctcttct acagcttctg agaatttgtt tatttcactt gccaaagtga 180  
ggacccctc cccaacatgc ccagccac ccctaagcat ggtcccttgt caccaggcaa 240  
ccaggaaact gctacttgtg gacctcacca gagaccagga gggtttggtt agctcacagg 300  
acttccccca cccagaaga ttagcatccc atactagact catactcaac tcaactaggc 360  
tcatactcaa ttgatggTTa ttagacaatt ccatttcttt ctggttatta taaacagaaa 420  
atctttctc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480  
atgaacttgt cttattttaa tggTgggttt tttttctggt 520

<210> 389  
<211> 365  
<212> DNA  
<213> Homo sapiens

<400> 389  
cgTTgcccc gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60  
gagTTaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120  
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180  
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240  
cccaggaaac cttcagacta ccttcctctg ccttcagcaa ggggcgttgc ccacattctc 300  
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360  
gggag 365

<210> 390  
<211> 221  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(221)  
<223> n = A,T,C or G

<400> 390  
tgctctcca tcttgcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60  
tacacggnTT ctcatgggtg tggaacatct ctgcttgcgg ttccaggaag gcctctggct 120  
gctctangag tctgannga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180  
tcaaagtcta gagggagtgg aggagTTaag gctggatttc a 221

<210> 391  
<211> 325  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(325)  
 <223> n = A,T,C or G

<400> 391  
 tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60  
 ctctcgccgc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120  
 tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180  
 naanttingat ntccanagcc ctaccatcn tagttctgct ctcccaccgg ntaccagccc 240  
 cactgcccag gaatcctaca gccagtaccc tgtcccagcg tctctaccta ccagtacgat 300  
 gagacctccg gctactacta tgacc 325

<210> 392  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 392  
 atattgttta actccttcct ttatatcttt taacattttc atggngaaag gtccacatct 60  
 agtctcactt nggcnagnn ctccacttg agtctcttcc ccggcctggn ccagtngnaa 120  
 antaccanga accgncatgn cttanaaact ncttggtttn tgggttnntc aatgactgca 180  
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggagg 240  
 ctgaggatac agcgcccggt cctgtgttgc tgggggaa 277

<210> 393  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<400> 393  
 actagtccag tgtggtggaa ttccgaggcc cgtcgacgga caggtcagct gtctggctca 60  
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga tttaattcag cctaaacggt 120  
 ttgcccggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180  
 gagaaggtct agtttgtcca tcagcattat catgatata ggactggtaa cttgggttaag 240  
 gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttggga 300  
 ggggtggtttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360  
 catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420  
 ttctgcctca atgtttactg tgcctttgtt tttgctagtt tgtgttgttg aaaaaaaaaa 480  
 cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540  
 ttttgccat caaaaaaaaa aaaaaa 566

<210> 394  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

```

gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaattng gaccgggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384

```

<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

```

ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcattcatt cggaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcattct ctcactacag acctctgacc atgggacggg 360
gcagcctggg gagaccatcc aatcccaaat aaaatgcac 399

```

<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

```

tggagttntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggaggt gttagtagat 180
actaaaaaaa gtggatgaat aatctggata ttttctctaa aaagattcct tgaaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggg gggagtgagg gataaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

```

<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400>	400						
acatcaacta	cttcctcatt	ttaagggtatg	gcagttccct	tcatcccctt	ttcctgcctt	60	
gtacatgtac	atgtatgaaa	tttcctttctc	ttaccgaact	ctctccacac	atcacaaggt	120	
caaagaacca	cacgcttaga	agggtaaagag	ggcaccctat	gaaatgaaat	ggtgatttct	180	
tgagtctctt	ttttccacgt	ttaagggggcc	atggcaggac	ttagagttgc	gagttaagac	240	
tgcagagggc	tagagaatta	tttcatacag	gctttgaggc	cacccatgtc	acttatcccg	300	
tataccctct	caccatcccc	ttgtctactc	tgatgcccc	aagatgcaac	tgggcagcta	360	
gttggcccca	taattctggg	cctttgttgt	ttgttttaat	tacttgggca	tcccaggaag	420	
ctttccagtg	atctcctacc	atgggcccc	ctcctgggat	caagcccctc	ccaggccctg	480	
tccccagccc	ctcctgcccc	agcccacccg	cttgcccttg	tgctcagccc	tcccattggg	540	



548

```
<210> 401
<211> 355
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G
```

<400>	401					
actgtttcca	tgttatgttt	ctacacattg	ctacctcagt	gctcctggaa	acttagcttt	60
tgatgtctcc	aagtagtcca	ccttcattta	actctttgaa	actgtatcat	ctttgccaaag	120
taagagtgg	ggcctatttc	agctgctttg	acaaaatgac	tggctcctga	cttaacggttc	180
tataaatgaa	tgtgctgaag	caaagtgcc	atgggtggcg	cgaagaagan	aaagatgtgt	240
tttgttttgg	actctctgtg	gtcccttcca	atgctgnggg	tttccaacca	ggggaagggt	300
cccttttgca	ttgccaaagt	ccataaccat	gagcactact	ctaccatggn	tctgc	355

```
<210> 402
<211> 407
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G
```

<400>	402						
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tctcacatgc	ggtggcatac	ataggctcaa	aataaaggaa	tggagaaaaa	tatttcaagc	120	
aaatggaaaa	cagaaaaaag	cagggtgttc	actcctactt	tctgacaaaa	cagactatgc	180	
gaataaagat	aaaaaaagaga	aggacattac	aaaggtggtc	ctgacctttg	ataaatctca	240	
ttgcttgata	ccaacctggg	ctgttttaat	tgcccaaacc	aaaaggataa	tttgctgagg	300	
ttgtggagct	tctccctgc	agagagtc	tgatctccca	aaatttggtt	gagatgtaag	360	
gntgattttg	ctgacaactc	cttttctgaa	gttttactca	tttccaa		407	

```
<210> 403
<211> 303
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G
```

<400> 403						
cagtattttat	agccnaactg	aaaagctagt	agcagggcaag	tctcaaatacc	aggcaccaaa	60
tcctaagcaa	gagccattggc	atgggtgaaaa	tgcaaaagga	gagtcctggcc	aatctacaaa	120
tagagaacaa	gacctaactc	gtcattgaaca	aaaaggcaga	caccaacatg	gatctcatgg	180
gggattggat	attgtaatta	tagagcagga	agatgacagt	gatcgtcatt	tggcacaca	240

tcttaacaac gaccgaaacc cattatttac ataaacctcc attcggtaac catgttgaaa 300  
gga 303

<210> 404  
<211> 225  
<212> DNA  
<213> Homo sapiens

<400> 404  
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60  
attgttaatg cactcattta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120  
acattttcca ctogtggttc catagttgtt aagtgtatca gatgtgttgg gcatgtgaat 180  
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405  
<211> 334  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(334)  
<223> n = A,T,C or G

<400> 405  
gagctgttat actgtgagtt ctactaggaa atcatcaaatt ctgaggggtg tctggaggac 60  
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtcct tctccttact 120  
tcatccccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180  
ttccagtgct ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtg 240  
ctggtgcggt tgtgcctcca gcttctgctc agtgcttcat ggacagtgct cagcccatgt 300  
cactctccac tctctcanng tggatcccac ccct 334

<210> 406  
<211> 216  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(216)  
<223> n = A,T,C or G

<400> 406  
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60  
gaaacaaaca cccaataaac tcggagtggtc agactgacaa ctgtgagaca tgcaattgct 120  
acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180  
actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407  
<211> 413  
<212> DNA  
<213> Homo sapiens

<400> 407

```
<210> 408
<211> 183
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(183)  
<223> n = A,T,C or G
```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tncttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttccctggcta cccatgtact 180
ntt                                     183

```

```
<210> 409
<211> 250
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G
```

```
<400> 409
cccacgcatg ataagctctt tattttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggtttggg ggacctgaac aaacctcctg taattaatca gcttttcagtt tctcccctta 120
gtccctcctt caacaacata ggaggatcct ccccttcctt ctgctcaacgg ccttatctag 180
gcttccagtg gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcctatgc                                     250
```

```
<210> 410
<211> 306
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(306)  
<223> n = A,T,C or G
```

```
<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatattgc aggatccgtc tgtgcacatg cctctgtaga gaggcagcatt 120
```

<400>	413								
aactcttaca	atccaagtga	ctcatctgtg	tgcttgaatc	ctttccactg	tctcatctcc	60			
ctcatccaag	tttctagtag	cttctctttg	ttgtgaagga	taatcaaact	gaacaacaaa	120			
aagtttactc	tctctatttg	gaacctaaaa	actctcttct	tctctgggtct	gagggtcca	180			
agaatccttg	aatcanttct	cagatcattg	gggacaccan	atcaggaacc	t	231			

<210> 414  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 414  
 actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60  
 gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120  
 gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagaggga 180  
 ctggaccccc tggaaagctga ttcactatgg ggggaggtgt attgaagtcc tcca 234

<210> 415  
 <211> 217  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(217)  
 <223> n = A,T,C or G

<400> 415  
 gcataggatt aagactgagt atctttttcta cattctttta acttttctaag gggcacttct 60  
 caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cacttttctca 120  
 cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggt tcagaaaaat 180  
 antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416  
 <211> 213  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(213)  
 <223> n = A,T,C or G

<400> 416  
 atgcatatnt aaagganact gcctcgcttt tagaagacat ctggnetgct ctctgcatga 60  
 ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120  
 cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180  
 atattggaac agatggagtc tctactacaa aag 213

<210> 417  
 <211> 303  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(303)  
 <223> n = A,T,C or G

&lt;400&gt; 417

```

nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaata ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303

```

&lt;210&gt; 418

&lt;211&gt; 328

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(328)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 418

```

tttttgccg tgggtgggca gggacgggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcactacaac ccctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcacat gttggccagg ctggtctcaa actcctnacc 240
tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

&lt;210&gt; 419

&lt;211&gt; 389

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(389)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 419

```

cctcctcaag acggcctgtg gtccgctccc cggcaaccaa gaagcctgca gtgccatagt 60
acccctgagc catggactgg agcctgaaag gcagcgtaca ccctgtcctt gatcttgctg 120
cttgtttcct ctctgtggct ccattcatag cacagtgtt gcaactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggc gtgccaggca 240
ccggttctcc agccaccaac ctactcgtc cccgcaaatg gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctatc agccatcacg 360
tggcagccac tcnggctgtg tcgacgcgg 389

```

&lt;210&gt; 420

&lt;211&gt; 408

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 420

```

gttcctccta actcctgcc aaaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggtc tcttgcttct gctttttttc tggttagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180

```

```

gtccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtccctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccc 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaaa ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacaggctc tttttgggtc cttcttctcc accacnata acttgacgtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcattgc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcgggagg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgcggcgg atcgcggcgg cgtcaatcct ggccaaggtc agccgtgac 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaaa ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggccctggcc gggagccctg tgcctactan aagcncatta gattatccat 120
tcaactgacag aacaggctct ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta 310

```

<210> 424  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(370)  
 <223> n = A,T,C or G

<400> 424  
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60  
 ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120  
 cactgacaga acaggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180  
 ccttcttgaa gattctttgg cagttgtctt tgtcataacc cacagggtga gaaacatcct 240  
 gggtgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300  
 cacgaaggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360  
 tccgtcgacg 370

<210> 425  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 425  
 aattgctatn nttttatttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaataga 60  
 taacaacnca acatcaaggn aaananaaca ggaatggntg actntgcata aatnggccga 120  
 anattatcca ttatnttaag gggtgacttc aggntacagc acacagacaa acatgcccag 180  
 gaggnntnca ggaccgctcg atgtnntntg aggagg 216

<210> 426  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<400> 426  
 cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60  
 tggcagtcag tgatggaagg gtgttctgat cattccgact gcccgaaggg tcgctggcca 120  
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180  
 gctgtccttg tattttgatt aacctaattg ctttcccagc acgactcgga ttcagctgga 240  
 gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtta 300  
 ttaggcagtt catctgcact gataacttct tggcagctga gctgggtcga gctgtggccc 360  
 aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420  
 ggtggatggc cttttcagct ttaacccaat ttgcaactgc ttggaagtgt agccaggaga 480  
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattgggt tactgcctga 540  
 gtcccgtggt tcccatccca ggaccttcca tcggcgagta cctggggagcc cgtgct 596

<210> 427  
 <211> 107



<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(107)  
<223> n = A,T,C or G

<400> 427  
gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncaccag 60  
cccgggagca gccttanaga gtcctgttt gactgcccgg ctcagnng 107

<210> 428  
<211> 38  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(38)  
<223> n = A,T,C or G

<400> 428  
gaacttcna anaangactt tattcactat tttacatt 38

<210> 429  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 429  
ctttgctgga cggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60  
attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgccg 120  
atatccacga actcttgaag gactttctga tttatccaca atcaaatacat cggttttcag 180  
tttggatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcggt 240  
gccttccact tcagttacac ctactcacc atcctctcct gttggttctg tgctgcttca 300  
agatactaag cccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360  
tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgttctca tcaagcccac 420  
gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480  
acctcaacaa gttagagaga tatgcatatc cagggatattt ttgccagggtg gtaggagaga 540  
ttat 544

<210> 430  
<211> 507  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(507)  
<223> n = A,T,C or G

<400> 430  
cttatcncaa tggggctccc aaacttggct gtgcagtga aactccgggg gaattttgaa 60

```

gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120
gagcatcaat ttaaaaagct gcccagaatg ttntcctggg cagcgttggt atctttgccn 180
ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgaggga gttccaggag 240
attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcggtgg ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctcttc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaaa

```

<210> 431  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(392)  
 <223> n = A,T,C or G

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattatth gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcttgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgtagg taaaatgtac aacttctgga tctatgcaga cattgaagggt 360
gcaatgagtc tggcttttac tctgctgttt ct

```

<210> 432  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(387)  
 <223> n = A,T,C or G

```

<400> 432
ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgga gtccagccac tngaaacat gctcccttta gattaacctc 180
gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtac aggaccggga 360
acaacgtata gaacactgga gtccttt

```

<210> 433  
 <211> 281  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(281)

<223> n = A,T,C or G

<400> 433

```
ttcaactagc anagaanact gcttcagggg gtgtaaaatg aaaggcttcc acgcagttat 60
ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttggtc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagnagg ntctctgtnt gccactggt 240
tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281
```

<210> 434

<211> 484

<212> DNA

<213> Homo sapiens

<400> 434

```
ttttaaata agcatttagt gctcagtcct tactgagtac tctttctctc ccctcctctg 60
aatttaattc tttaacttg caatttgcaa ggattacaca tttcactgtg atgtatattg 120
tgttgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtgaa tccatcttgc 180
tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acaggtgaat tggatggttc tcagaacccat ttcaccaga 300
cagcctgttt ctatcctgtt taataaatta gtttgggttc totacatgca taacaaaccc 360
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
ttta 484
```

<210> 435

<211> 424

<212> DNA

<213> Homo sapiens

<400> 435

```
ggcgcgtca gagcaggtca ctttctgcct tccacgtcct ccttcaagga agcccatgt 60
gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
atgggcctgt ggggagggg caagatagat gagggggagc ggcattggtc ggggtgaccc 240
cttgagaga ggaaaaagg cacaagagg gctgccaccg ccactaacgg agatggccct 300
ggtagagacc ttgggggtc tggaaacctt ggactcccca tgctctaact cccacactct 360
gctatcagaa acttaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
aaac 424
```

<210> 436

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcctggccat gtaatcctga aagttttccc aaggtagcta taaatcctt ataaggggtgc 120
```

```
<210> 437
<211> 693
<212> DNA
<213> Homo sapiens
```

```
<210> 438
<211> 360
<212> DNA
<213> Homo sapiens
```

```
<210> 439
<211> 431
<212> DNA
<213> Homo sapiens
```

<400> 439

gttcctnnta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggct tcttgcttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240  
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420  
 aatttagtag t 431

<210> 440

<211> 523

<212> DNA

<213> Homo sapiens

<400> 440

agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60  
 ggatcctttt tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120  
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180  
 aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240  
 cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300  
 actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360  
 taaaaattaa aacctctttg tgtcccttgg tcctggaaca tttatgttcc ttttaaagaa 420  
 acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480  
 tatatatatc atagcaaata agtcacttga tgagaacaag cta 523

<210> 441

<211> 430

<212> DNA

<213> Homo sapiens

<400> 441

gttcctccta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggct tcttgcttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180  
 gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240  
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420  
 aatttagtag 430

<210> 442

<211> 362

<212> DNA

<213> Homo sapiens

<400> 442

ctaaggaatt agtagtgctt ccatcacttg tttggagtgt gctattctaa aagattttga 60  
 tttcctggaa tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120  
 cttcacttct gatacttgta aattaactt ttattgcact tgttttgacc attagctat 180  
 atgtttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240  
 aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattccttt 300  
 tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360  
 tc 362

<210> 443  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(624)  
 <223> n = A,T,C or G

<400> 443  
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60  
 ttgaaagaat taaattcaga ggaggggaga gaaagagtag tcagtaggga ctgagcacta 120  
 aatgcttatt taaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180  
 tgcctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240  
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg ctccctgttt 300  
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaataaac 360  
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420  
 atggtaacaa tccttattat taaagtcaac gctaaaaatga atgtgtgtgc atatgctaat 480  
 agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaaga 540  
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaact 600  
 ttgtccctat ctgctaaaca gatc 624

<210> 444  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(425)  
 <223> n = A,T,C or G

<400> 444  
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60  
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120  
 ttcattgcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaatt ccttgaatgc 180  
 tgcttaattgt gagagggttg taaaatcctt tgtgcaaacac tctaactccc tgaatgtttt 240  
 gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300  
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360  
 ggaggcacca gggcataagt gagtagactt atggctcgacg cggccgcgaa tttagtagta 420  
 gtaga 425

<210> 445  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n = A,T,C or G

<400> 445

00544-0400

catgtttatg nttttggatt actttgggca cctagtgttt ctaaactgtc tatcattctt 60  
 ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120  
 tgaattcttt tgcattgtgc agattattgg atgtagtctt cttaactag catataaatc 180  
 tgggtgtttt cagataaatg aacagcaaaa tgggtggaa ttaccatttg gaacattgtg 240  
 aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300  
 ggatttttat aatcctactc acaaatgact aggtctctcc tcttgtattt tgaagcagt 360  
 tgggtgctgg attgataaaa aaaaaaaaag tcgacgcggc cgcaattta gtag 414

<210> 446

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 446

acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60  
 tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcaggtgtg 120  
 atgtctggtta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180  
 ccggtcctgt acgatttcag tatgtcttaa tcgcagctgt gattggaaca attcagattg 240  
 ctgtcatctg tgtggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300  
 actgagattt gtaaaactttc caaccttcca ggaaatgccc cagaagcaac agaattcaca 360  
 gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420  
 taatctaaaag ggagcatgtt tcacagtggc tggactaccg agagcttggc ctacacaata 480  
 cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccttg catttgtggt 540  
 aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatattga 600  
 aatagtatac attgtcttga tgttttttct g

<210> 447

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(585)

<223> n = A,T,C or G

<400> 447

ccttgggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaaggt 60  
 cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120  
 gcctcttctg gaattcctct gatttcaaa tctcactctc aagttcttga aaacgagggc 180  
 agttcctgaa aggcaggtat agcaactgat cttcagaaag aggaactgtg tgcaccggga 240  
 tgggtgcca gagtaggata ggattccaga tgcagacacc ttctggggga aacagggctg 300  
 ccaggtttgt catagcactc atcaaaagtcc ggtcaacgtc tgtgcttcca atataaacct 360  
 gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420  
 gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480  
 attcctttat ggggtcagtg ggaaaggtgt caatgggact tcggtctcca tgccgaaaca 540  
 ccaaagtcac aaacttcaac tccttggcta gtacacttcg gtcta

<210> 448

585

097594-0460

<211> 93  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(93)  
 <223> n = A,T,C or G

<400> 448  
 tgctcgtggg tcattctgan nnccgaactg accntgccag ccctgccgan gggccnccat 60  
 ggctccctag tgccctggag agganggggc tag 93

<210> 449  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(706)  
 <223> n = A,T,C or G

<400> 449  
 ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60  
 ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120  
 cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180  
 cggggacagc atcctgcaga tggctggggcg cgtccattc gccattcagg ctgcgcaact 240  
 gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300  
 gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtcncca cgttgtaaaa 360  
 cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcatgcacg 420  
 cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480  
 cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540  
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600  
 aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncocca 660  
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 <213> Homo sapiens

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 aatgagggct gagaacttta caaagggatc ttacagacat gtgcgcaata tcaactgcag 180  
 agcctaagta taagaacaac ctttggggag aaacctcat ttgacagtga ggtacaattc 240  
 caagtcagggt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300  
 agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360  
 tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420  
 tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480  
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<210> 451

04540400



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<212>	DNA

<213> Homo sapiens

<400> 454

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agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
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<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

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gtttcaacgc attgatgact tctccaagga tcttcctttg gcatcgacca cattcagggg 180
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<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

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tgcactcaaa ttcttttctc aggaataact acatagccac tatttacaac gccattggaa 180
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<213> Homo sapiens

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<400> 457

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tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
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<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

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acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180  
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 gccctgcaact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180  
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 cccacctccc cacacgcaca cggccagcct ggagccaca gaagggtcct cctgcagcca 180  
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 gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180  
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 cctgtctcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180  
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 aggatggcac aatttttgct tgtgttcata atatactcag attagttcag ctccatcaga 180  
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 cctgtgcaat caaatattgt ggagaattcc cttagctggag aagtcacaaa gactatagga 180  
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 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 472

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> n = A,T,C or G

<400> 472

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agatgggcag ccataagtta aaaagaagac aagctgaagc tacacacatg gctgatgtca 420
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<210> 473

<211> 5829

<212> DNA

<213> Homo sapiens

<400> 473

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<210> 474

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

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 <212> DNA  
 <213> Homo sapiens

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<400> 475

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<211> 3434
<212> DNA
<213> Homo sapiens
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&lt;400&gt; 478

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Ser	His	Gly	His	Thr	Gly	Ile	Val	Thr	Trp	Thr	Asp	Thr	Gln	Thr	Tyr
			20					25					30		
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His	Gly	Asp	Ile	Thr	Thr	Trp	Thr	His	Cys	His	Thr	Thr	Thr	Gly	Thr
	50					55					60				
Arg	Asp	Ile	Thr	Leu	Ser	His	Gly	His	Thr	Ile	Thr	His	Met	Asn	Thr
	65				70					75					80
Pro	Thr	His	Cys	His	Met	Asp	Thr	Gly	Thr	His	Thr	Ala	Thr	Leu	Ser
				85					90					95	
His	Gly	His	Thr	Ser	Thr	Pro	Ser	His	His	His	Thr	His	Cys	Leu	Trp
			100					105					110		
Thr	Gln	Gly	His	Thr	Asp	Thr	Val	Thr	Gln	Ile	His	Lys	Thr	Leu	Ser
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&lt;210&gt; 479

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

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Ser	His	Glu	His	Thr	Gly	Ile	Val	Thr	Trp	Thr	Asp	Thr	Gln	Thr	Tyr
			20					25					30		
Gly	Glu	Ile	Thr	Leu	Thr	His	His	His	Thr	Ile	Thr	Gly	Thr	Gln	Thr
		35					40					45			
His	Gly	Asp	Ile	Thr	Thr	Trp	Thr	His	Cys	His	Thr	Thr	Thr	Gly	Thr
	50					55					60				
Arg	Asp	Ile	Thr	Leu	Ser	His	Gly	His	Thr	Ile	Thr	His	Met	Asn	Thr
	65				70					75					80
Pro	Thr	His	Cys	His	Met	Asp	Thr	Ala	Thr	His	Thr	Ala	Thr	Leu	Ser
				85					90					95	
His	Gly	His	Thr	Ser	Ile	Pro	Ser	His	His	His	Thr	His	Cys	His	Val

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 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr  
 130 135 140  
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His  
 145 150 155 160  
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala  
 165 170 175  
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp  
 180 185 190  
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 210 215 220  
  
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 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg  
 35 40 45  
 Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly  
 50 55 60  
 Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln  
 65 70 75 80  
 Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys  
 85 90 95  
 Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly  
 100 105 110  
 Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu  
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Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly  
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<210> 481  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

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 35 40 45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys  
 50 55 60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro  
 65 70 75 80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg  
 85 90 95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala  
 100 105 110

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His  
 115 120 125

Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe  
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Trp Leu Ser Arg Gly Arg Pro  
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 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 482  
 Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val





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<210> 488
<211> 33
<212> DNA
<213> Artificial Sequence
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&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 488

gggaagcttc ttccccggct gcaccagctg tgc

33

&lt;210&gt; 489

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 489

Met	Asp	Arg	Leu	Val	Gln	Arg	Phe	Gly	Thr	Arg	Ala	Val	Tyr	Leu	Ala
1				5					10					15	

Ser Val Ala

&lt;210&gt; 490

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 490

Tyr	Leu	Ala	Ser	Val	Ala	Ala	Phe	Pro	Val	Ala	Ala	Gly	Ala	Thr	Cys
1				5					10					15	

Leu	Ser	His	Ser
			20

&lt;210&gt; 491

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 491

Thr	Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr	Ala	Ser	Ala	Ala	Leu
1				5					10					15	

Thr	Gly	Phe	Thr
			20

&lt;210&gt; 492

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

T03T04:04T05T06T07T08T09T10T11T12T13T14T15T16T17T18T19T20T21T22T23T24T25T26T27T28T29T30T31T32T33T34T35T36T37T38T39T40T41T42T43T44T45T46T47T48T49T50T51T52T53T54T55T56T57T58T59T60

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 492

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala	Leu	Gln	Ile	Leu	Pro	Tyr	Thr
1				5					10					15	
Leu	Ala	Ser	Leu												
			20												

&lt;210&gt; 493

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 493

Tyr	Thr	Leu	Ala	Ser	Leu	Tyr	His	Arg	Glu	Lys	Gln	Val	Phe	Leu	Pro
1				5					10					15	
Lys	Tyr	Arg	Gly												
			20												

&lt;210&gt; 494

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 494

Leu	Pro	Lys	Tyr	Arg	Gly	Asp	Thr	Gly	Gly	Ala	Ser	Ser	Glu	Asp	Ser
1				5					10					15	
Leu	Met	Ile	Ser												
			20												

&lt;210&gt; 495

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 495

Asp	Ser	Leu	Met	Thr	Ser	Phe	Leu	Pro	Gly	Pro	Lys	Pro	Gly	Ala	Pro
1				5					10					15	
Phe	Pro	Asn	Gly												
			20												

&lt;210&gt; 496

&lt;211&gt; 21

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<400> 499  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
 1 5 10 15  
 Ser Ala Phe Leu  
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<210> 500  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 500  
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met  
 1 5 10 15  
 Gly Ser Ile Val  
 20

<210> 501  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 501  
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met  
 1 5 10 15  
 Val Ser Ala Ala  
 20

<210> 502  
 <211> 414  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n=A,T,C or G

<400> 502  
 caccatggag acaggcctgc gctggctttt cctggtcgct gtgctcaaag gtgtccaatg 60  
 tcagtcggtg gaggagtccg ggggtcgcct ggtcacgcct gggacacctt tgacantcac 120  
 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc 180  
 aggggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240  
 gaaaggccga ttnatnattt ccaaaacctn gaccacgggtg gatttgaaaa tgaccagtcc 300  
 gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggtg atagtggttg 360  
 gaagaatatt tggggcccag gcacctggt caccgtntcc tcagggaac ctaa 414

<210> 503  
 <211> 379  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(379)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 503

atnccgatggt gcttgggtcaa aggtgtccag tgtcagtcgg tggaggagtc cggggggtcgc	60
ctgggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt	120
agctatggag tgagctgggt ccgccaggct ccagggaagg ggctggnata catcggatca	180
ttagtagtag tggtagatatt tacgcgagct gggcgaaagg ccgattcacc atttccaaaa	240
cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt	300
tntgtgccag agggggggtt aattataaag acatttgggg cccaggcacc ctggtcaccg	360
tntccttagg gcaacctaa	379

&lt;210&gt; 504

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 504

Gly	Phe	Thr	Asn	Tyr	Thr	Asp	Phe	Glu	Asp	Ser	Pro	Tyr	Phe	Lys	Glu
1				5					10					15	
Asn	Ser	Ala													

&lt;210&gt; 505

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 505

Lys	Glu	Asn	Ser	Ala	Phe	Pro	Pro	Phe	Cys	Cys	Asn	Asp	Asn	Val	Thr
1				5					10					15	
Asn	Thr	Ala	Asn												
			20												

&lt;210&gt; 506

&lt;211&gt; 407

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 506

atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaagggtg ccagtgtcag	60
tcgctggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgc	120
accgtctctg gattctccct cagtagcaat gcaatgatct gggctccgca ggctccaggg	180
aaggggctgg aatacatcgg atacattagt tatgggtgga gcgcatacta cgcgagctgg	240
gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt	300
ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg	360
ttgtggggcc caggcaccct ggtcaccgtc tcctcagggc aacctaa	407

<210> 507  
 <211> 422  
 <212> DNA  
 <213> Homo Sapien

<400> 507  
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 tcggtggagg agtccggggg tcgcctggtc acgcctggga caccctgac actcacctgt 120  
 acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg 180  
 aaggggctgg aatggatcgg gatcattaat tatgttggtg ggacggacta cgcgaactgg 240  
 gcaaaaggcc gggtcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300  
 ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360  
 ggtccgtgct tgcgcctctg gggcccaggc accctggtca ccgtctcctt agggcaacct 422  
 aa

<210> 508  
 <211> 411  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(411)  
 <223> n=A,T,C or G

<400> 508  
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 cgggtggagg gtccgggggt cgctggtca cgctgggac acccctgaca ctccactgca 120  
 cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg 180  
 aggggctgga atggatcgga atcattggta ctctgtgga cacatactac gcgaggtggg 240  
 cgaaaggccg attcaccatc tccaaaacct cgaccacgtg gcatntgaaa atcnccagtc 300  
 cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360  
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<210> 509  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 509  
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 1 5 10 15

<210> 510  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab



<400> 514  
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
1 5 10 15

<220>  
<223> Made in a lab

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<210> 516
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> Made in a lab
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<210> 517
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Made in a lab

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<210> 518
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Made in a lab

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<210> 519
<211> 17
<212> PRT
<213> Artificial Sequence
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<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
1				5					10					15	
Gly															

<210> 520

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 520

Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr
1				5					10					15	
Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly							
			20					25							

<210> 521

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5					10					15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5					10					15	
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT

<213> Artificial Sequence

191-192-193-194-195-196-197-198-199-200

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(254)

&lt;223&gt; Xaa = any amino acid

&lt;400&gt; 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10						15	
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75					80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
				85				90						95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
			100					105					110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115					120				125				
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130					135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145					150				155					160	
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
				165				170						175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
			180					185					190		
Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
		195					200					205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210					215					220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225					230					235				240	
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
				245					250						

&lt;210&gt; 524

&lt;211&gt; 765

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 524

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tgcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tggtctgctc	gggcgtcctg	180
gtgcatccgc	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggt	240
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<210> 525
<211> 254
<212> PRT
<213> Homo sapien
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<210> 526
<211> 963
<212> DNA
<213> Homo sapiens
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<400> 526



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 180 185 190  
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 195 200 205  
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 210 215 220  
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 225 230 235 240  
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 245 250 255  
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 260 265 270  
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 275 280 285  
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 290 295 300  
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 305 310 315 320

&lt;210&gt; 528

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 528

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20

&lt;210&gt; 529

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 529

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20

&lt;210&gt; 530

&lt;211&gt; 1852

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 530

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<210> 531  
 <211> 879  
 <212> DNA  
 <213> Homo sapiens

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<400> 531
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<210> 532  
 <211> 292



<213> Homo sapiens

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly  
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Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe  
35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp  
50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu  
65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg  
85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp  
100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser  
115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu  
130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu  
145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile  
165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu  
180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu  
195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu  
210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu  
225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys  
245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp  
260 265 270





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<210> 536
<211> 6140
<212> DNA
<213> Homo sapiens

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<223> n=A,T,C or G

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<212> PRT  
<213> Homo sapiens

<400> 537  
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Asn Leu Cys Ser Arg Val Phe Phe Trp Trp Leu Asn Pro Leu Phe Lys  
20 25 30

Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu

35	40	45
Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp		
50	55	60
Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu		
65	70	75
Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly		
	85	90
Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe		
	100	110
Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser		
	115	120
Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys		
	130	135
Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln		
	145	150
Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg		
	165	170
Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Thr Gly		
	180	185
Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val		
	195	200
Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro Leu Gln Ala Ile Ala		
	210	215
Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly		
	225	230
Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys		
	245	250
Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg		
	260	265
Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile Arg Ile Ile Lys Met		
	275	280
Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile Thr Asn Leu Arg Lys		
	290	295
Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn		
	305	310
Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile Val Phe Val Thr Phe		



325 330 335  
 Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr Ala Ser Arg Val Phe  
 340 345 350  
 Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu Thr Val Thr Leu Phe  
 355 360 365  
 Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg  
 370 375 380  
 Arg Ile Gln Thr Phe Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg  
 385 390 395 400  
 Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr  
 405 410 415  
 Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser  
 420 425 430  
 Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly  
 435 440 445  
 Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro  
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 Ser His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln  
 465 470 475 480  
 Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly  
 485 490 495  
 Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala  
 500 505 510  
 Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile  
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 Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn  
 530 535 540  
 Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp  
 545 550 555 560  
 Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu  
 565 570 575  
 Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His  
 580 585 590  
 Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp  
 595 600 605  
 Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly

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610					615					620					
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Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	Arg	Thr	Phe	Ser	Glu
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Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Lys	Asp	Gly
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Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	Val	Thr	Leu	Ser	Glu
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Glu	Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	Ala	Tyr	Lys	Asn	Tyr
	690					695					700				
Phe	Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile	Phe	Leu	Ile	Leu	Leu
705					710					715					720
Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln	Asp	Trp	Trp	Leu	Ser
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Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val	Thr	Val	Asn	Gly	Gly
			740					745					750		
Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp	Tyr	Leu	Gly	Ile	Tyr
		755					760					765			
Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly	Ile	Ala	Arg	Ser	Leu
	770					775					780				
Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln	Thr	Leu	His	Asn	Lys
785					790					795					800
Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu	Phe	Phe	Asp	Arg	Asn
				805					810					815	
Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys	Asp	Ile	Gly	His	Leu
			820					825					830		
Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe	Ile	Gln	Thr	Leu	Leu
		835					840					845			
Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala	Val	Ile	Pro	Trp	Ile
		850				855					860				
Ala	Ile	Pro	Leu	Val	Pro	Leu	Gly	Ile	Ile	Phe	Ile	Phe	Leu	Arg	Arg
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Tyr	Phe	Leu	Glu	Thr	Ser	Arg	Asp	Val	Lys	Arg	Leu	Glu	Ser	Thr	Thr
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Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser	Leu	Gln	Gly	Leu	Trp

900					905					910					
Thr	Ile	Arg	Ala	Tyr	Lys	Ala	Glu	Glu	Arg	Cys	Gln	Glu	Leu	Phe	Asp
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Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe	Leu	Phe	Leu	Thr	Thr
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Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile	Cys	Ala	Met	Phe	Val
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Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala	Lys	Thr	Leu	Asp	Ala
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Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu	Thr	Leu	Met	Gly	Met
			980					985					990		
Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val	Glu	Asn	Met	Met	Ile
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Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu	Glu	Lys	Glu	Ala	Pro
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Trp	Glu	Tyr	Gln	Lys	Arg	Pro	Pro	Pro	Ala	Trp	Pro	His	Glu	Gly	Val
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Val	Leu	Lys	His	Leu	Thr	Ala	Leu	Ile	Lys	Ser	Gln	Glu	Lys	Val	Gly
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Ile	Val	Gly	Arg	Thr	Gly	Ala	Gly	Lys	Ser	Ser	Leu	Ile	Ser	Ala	Leu
		1075					1080					1085			
Phe	Arg	Leu	Ser	Glu	Pro	Glu	Gly	Lys	Ile	Trp	Ile	Asp	Lys	Ile	Leu
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Thr	Thr	Glu	Ile	Gly	Leu	His	Asp	Leu	Arg	Lys	Lys	Met	Ser	Ile	Ile
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Pro	Gln	Glu	Pro	Val	Leu	Phe	Thr	Gly	Thr	Met	Arg	Lys	Asn	Leu	Asp
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Pro	Phe	Asn	Glu	His	Thr	Asp	Glu	Glu	Leu	Trp	Asn	Ala	Leu	Gln	Glu
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Val	Gln	Leu	Lys	Glu	Thr	Ile	Glu	Asp	Leu	Pro	Gly	Lys	Met	Asp	Thr
		1155					1160					1165			
Glu	Leu	Ala	Glu	Ser	Gly	Ser	Asn	Phe	Ser	Val	Gly	Gln	Arg	Gln	Leu
		1170				1175					1180				
Val	Cys	Leu	Ala	Arg	Ala	Ile	Leu	Arg	Lys	Asn	Gln	Ile	Leu	Ile	Ile

1185                      1190                      1195                      1200

Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln  
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Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys  
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<210> 538

<211> 1261

<212> PRT

<213> Homo sapiens

<400> 538

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Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser  
    35                      40                      45

Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val  
    50                      55                      60

Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr  
    65                      70                      75                      80

Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr  
    85                      90                      95

Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr  
    100                      105                      110

Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys  
    115                      120                      125

His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly  
    130                      135                      140

Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn  
    145                      150                      155                      160

Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro  
    165                      170                      175

Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile  
    180                      185                      190

Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln  
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Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr

PROTEIN

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 Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile  
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 Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile  
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 Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys  
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 Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile  
                     275                      280                      285  
 Val Phe Val Thr Phe Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr  
                     290                      295                      300  
 Ala Ser Arg Val Phe Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu  
 305                      310                      315  
 Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala  
                     325                      330                      335  
 Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile  
                     340                      345                      350  
 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His  
                     355                      360                      365  
 Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr  
                     370                      375                      380  
 Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val  
 385                      390                      395  
 Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu  
                     405                      410                      415  
 Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile  
                     420                      425                      430  
 Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser  
                     435                      440                      445  
 Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val  
                     450                      455                      460  
 Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly  
 465                      470                      475                      480  
 Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln  
                     485                      490                      495  
 Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile

500							505					510				
Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg	
515							520					525				
His	Leu	Phe	Glu	Leu	Cys	Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr	
530							535					540				
Ile	Leu	Val	Thr	His	Gln	Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile	
545							555					560				
Leu	Ile	Leu	Lys	Asp	Gly	Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu	
565							570					575				
Phe	Leu	Lys	Ser	Gly	Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn	
580							585					590				
Glu	Glu	Ser	Glu	Gln	Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn	
595							600					605				
Arg	Thr	Phe	Ser	Glu	Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro	
610							615					620				
Ser	Leu	Lys	Asp	Gly	Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro	
625							630					635				
Val	Thr	Leu	Ser	Glu	Glu	Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln	
645							650					655				
Ala	Tyr	Lys	Asn	Tyr	Phe	Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile	
660							665					670				
Phe	Leu	Ile	Leu	Leu	Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln	
675							680					685				
Asp	Trp	Trp	Leu	Ser	Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val	
690							695					700				
Thr	Val	Asn	Gly	Gly	Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp	
705							710					715				
Tyr	Leu	Gly	Ile	Tyr	Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly	
725							730					735				
Ile	Ala	Arg	Ser	Leu	Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln	
740							745					750				
Thr	Leu	His	Asn	Lys	Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu	
755							760					765				
Phe	Phe	Asp	Arg	Asn	Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys	
770							775					780				
Asp	Ile	Gly	His	Leu	Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe	



1075	1080	1085
Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp 1090	1095	1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro 1105	1110	1115 1120
Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val 1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn 1140	1145	1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr 1155	1160	1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr 1170	1175	1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys 1185	1190	1195 1200
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr 1205	1210	1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln 1220	1225	1230
Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg 1235	1240	1245
Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser 1250	1255	1260

&lt;210&gt; 539

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 539

Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr
1				5					10

&lt;210&gt; 540

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

1075  
 1080  
 1085  
 1090  
 1095  
 1100  
 1105  
 1110  
 1115  
 1120  
 1125  
 1130  
 1135  
 1140  
 1145  
 1150  
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 1160  
 1165  
 1170  
 1175  
 1180  
 1185  
 1190  
 1195  
 1200  
 1205  
 1210  
 1215  
 1220  
 1225  
 1230  
 1235  
 1240  
 1245  
 1250  
 1255  
 1260



&lt;400&gt; 540

Ala Val Val Thr Ala Ser Ala Ala Leu

1

5

&lt;210&gt; 541

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 541

Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu

5

10

&lt;210&gt; 542

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 542

Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala

5

10

15

&lt;210&gt; 543

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 543

Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val

5

10

&lt;210&gt; 544

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 544

Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe

5

10

15

Met Thr

&lt;210&gt; 545

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 545

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
                   5                  10                  15

Ser Val

<210> 546  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly  
                   5                  10                  15

Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met  
                   20                  25

<210> 547  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 547  
 Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu  
                   5                  10                  15

Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu  
                   20                  25                  30

Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys  
                   35                  40                  45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu  
                   50                  55

<210> 548  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 548  
 Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu  
                   5                  10                  15

Glu Cys

<210> 549  
 <211> 18

202504051000

<212> PRT  
 <213> Homo sapiens

<400> 549  
 Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg  
                   5                  10                  15

Gln Ala

<210> 550  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 550  
 Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe  
                   5                  10

<210> 551  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 551  
 Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
                   5                  10

<210> 552  
 <211> 2577  
 <212> DNA  
 <213> Homo sapiens

<400> 552  
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 tcataccagt ccacggacta ttatgaacca caccacacag gaggaggtga gcactaggca 180  
 agccaaggaa gcttcacctg tacttacagc cacacgccat ggctcatatt acagcctgaa 240  
 ctctgcctcc actcagatca gtgataacat tagaaactca ttggagcacg aaccctgttg 300  
 tgaactgcct atccgaagga tctaggttgt gtgcttcgta tgagaatcta atgccagatg 360  
 atctatcatt gtctcacttt gccccagat aagaccatct agttgcagaa aaataagctc 420  
 agagcttcca ctgattctac attatggata tgtgccgccg aagcaagcac aaagccctac 480  
 ttttacacat gcctagtgat gcttcattga caaggcttgg ctctgttgag tccaactaac 540  
 ctacctgaga ttctgagatt tctcttcaat ggcttcctgt gagctagagt ttgaaaatat 600  
 cttaaaatct tgagctagag atggaagtag cttggacgat ttctattatc atgtaaatcg 660  
 ggctcaactca ggggcccaacc acagctggga gccactgctc aggggaaggt tcatatggga 720  
 ctttctactg cccaaggttc tatacaggat ataaagggtgc ctcacagtat agatctggta 780  
 gcaaagaaga agaaacaaac actgatctct ttctgccacc cctctgacct tttggaactc 840  
 ctctgacctt ttagaacaag cctacctaata atctgctaga gaaaagacca acaacggcct 900



Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile  
                                   5                                  10                                  15

Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val  
                                   20                                  25                                  30

Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro  
                                   35                                  40                                  45

Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu  
                                   50                                  55

<210> 555

<211> 71

<212> PRT

<213> Homo sapiens

<400> 555

Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln  
                                   5                                  10                                  15

Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser  
                                   20                                  25                                  30

Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp  
                                   35                                  40                                  45

Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro  
                                   50                                  55                                  60

Ser Asp Pro Leu Glu Leu Leu  
                                   65                                  70

<210> 556

<211> 81

<212> PRT

<213> Homo sapiens

<400> 556

Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr  
                                   5                                  10                                  15

Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr  
                                   20                                  25                                  30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly  
                                   35                                  40                                  45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile  
                                   50                                  55                                  60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 559

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser  
                           5                          10                          15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala  
                           20                          25                          30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala  
                           35                          40                          45

Pro Arg  
           50

&lt;210&gt; 560

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 560

Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly  
                           5                          10                          15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr  
                           20                          25                          30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn  
                           35                          40                          45

Thr Asp Leu Phe Leu Pro Pro Leu  
           50                          55

&lt;210&gt; 561

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(57)

&lt;223&gt; Xaa = Any amino acid

&lt;400&gt; 561

Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys  
                           5                          10                          15

Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser  
                           20                          25                          30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn

TOPTREND

35

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Ser Leu Pro Arg Glu Asn Tyr Leu Asn  
50 55

&lt;210&gt; 562

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(59)

&lt;223&gt; Xaa = Any amino acid

&lt;400&gt; 562

Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val  
5 10 15

Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu  
20 25 30

Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val  
35 40 45

Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro  
50 55

&lt;210&gt; 563

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 563

Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro  
5 10 15

Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His  
20 25 30

Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met  
35 40 45

Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg  
50 55 60

Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg  
65 70 75

&lt;210&gt; 564

&lt;211&gt; 64

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<210> 567
<211> 51
<212> PRT
<213> Homo sapiens
```

<400> 567  
Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu  
5 10 15

Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile  
20 25 30

Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile  
35 40 45

Phe Arg Thr  
50

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<210> 568
<211> 75
<212> PRT
<213> Homo sapiens
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<400> 568  
Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile  
5 10 15

Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu  
20 25 30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr  
35 40 45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp  
50 55 60

Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu  
65 70 75

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<210> 569
<211> 4809
<212> DNA
<213> Homo sapiens
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<400> 569



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cagcacagca gctgacatcc tgtgtgacag ccttgaaagc agcaggcccg ccgctcacat 3420
tttggaaggg aaaatgggta caatgttgtc tgccactttg gggccttctt gggtcacatg 3480
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aaaaaaaaa 4809

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&lt;210&gt; 570

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 570

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&lt;210&gt; 571

&lt;211&gt; 819

&lt;212&gt; DNA

<400> 571

<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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attgtgttg	gccaacaca	atggagccac	cacatccagc	ctgccacata	cttttaaact	180
atcaggtctc	atgagaactc	atg				203

<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg  
5 10 15

Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg  
20 25 30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu  
35 40 45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu  
50 55 60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala  
65 70 75 80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly  
85 90 95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro

110

Leu Leu Asn Tyr  
130

```
<210> 574
<211> 62
<212> PRT
<213> Homo sapiens
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<400> 574  
Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn  
5 10 15

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln  
20 25 30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu  
35 40 45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala  
50 55 60

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<210> 575
<211> 76
<212> PRT
<213> Homo sapiens
```

```
<400> 575
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
          5              10              15
```

Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu  
20 25 30

Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp  
50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys  
65 70 75

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<210> 576
<211> 68
<212> PRT
<213> Homo sapiens
```

<223> Xaa = Any Amino Acid

Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr

Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr  
20 25 30

Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln  
35 40 45

Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn  
50 55 60

Pro Gly Tyr Ser  
65

<213> Homo sapiens

Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg  
5 10 15

Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro  
20 25 30

Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe  
35 40 45

Arg Leu Ala Pro Pro Ala Asp Thr Pro  
50 55

<213> Homo sapiens

Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His  
5 10 15

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr  
20 25 30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr  
           35                                  40                                  45

Gln Pro His  
           50

<210> 579  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 579  
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu  
                                   5                                  10                                  15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr  
                                   20                                  25                                  30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His  
                                   35                                  40                                  45

Ile Ala Lys Val Tyr Gln Pro His  
           50                                  55

<210> 580  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 580  
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser  
                                   5                                  10                                  15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys  
                                   20                                  25                                  30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser  
                                   35                                  40                                  45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser  
           50                                  55                                  60

Phe Ile His  
           65

<210> 581  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 581

FTD 100000



Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu  
                           5                          10                          15

Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser  
                           20                          25                          30

Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala  
                           35                          40                          45

Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu  
                           50                          55                          60

Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser  
           65                          70                          75

<210> 582  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 582  
 Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile  
                           5                          10                          15

Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val  
                           20                          25                          30

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe  
                           35                          40                          45

Leu Gly Val  
           50

<210> 583  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                           5                          10                          15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                           20                          25                          30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
                           35                          40                          45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
           50                          55                          60

<210> 584  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 584  
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
                   5                  10                  15  
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                   20                  25                  30  
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                   35                  40                  45  
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
                   50                  55                  60  
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
                   65                  70                  75

<210> 585  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 585  
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu  
                   5                  10                  15  
 Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp  
                   20                  25                  30  
 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu  
                   35                  40                  45  
 Leu Phe  
           50

<210> 586  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 586  
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
                   5                  10                  15  
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
                   20                  25                  30  
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser

35

40

45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
 50 55 60

<210> 587  
 <211> 1408  
 <212> DNA  
 <213> Homo sapiens

<400> 587  
 ctggacactt tgcgagggct tttgctggct gctgctgctg cccgtcatgc tactcatcgt 60  
 agcccgcccg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac 120  
 cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180  
 cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240  
 gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300  
 tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgcaga 360  
 aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420  
 agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480  
 cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgttctcaaa ccaacttcaa 540  
 tcccctctgc gcttctgatg ggaaatctta tgataatgca tgccaaatca aagaagcatc 600  
 gtgtcagaaa caggagaaaa ttgaagtcac gtctttgggt cgatgtcaag ataacacaac 660  
 tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaatgctaa 720  
 caaattagaa gaaagtgccg gagaacacca cataccttgt ccggaacatt acaatggctt 780  
 ctgcatgcat gggaagtgtg agcattctat caatatgcag gagccatctt gcagggtgtga 840  
 tgctggttat actggacaac actgtgaaaa aaaggactac agtgttctat acgttggttc 900  
 cggtcctgta cgatttcagt atgtcttaac cgcagctgtg attggaacaa ttcagattgc 960  
 tgtcatctgt gtggtgggtcc tctgcatcac aaggaaatgc cccagaagca acagaattca 1020  
 cagacagaag caaaatacag ggcactacag ttcagacaat acaacaagag cgtccacgag 1080  
 gttaatctaa agggagcatg tttcacagtg gctggactac cgagagcttg gactacacaa 1140  
 tacagtatta tagacaaaaa aataagacaa agcatctaca catgttgctt tgcatttgtg 1200  
 gtaatctaca ccaatgaaaa catgtactac agtatatatt gattatgtat ggatatattt 1260  
 gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320  
 caatawagtt ttttctttcc catgtatttg ttatatataa taaatactca gtgatgagaa 1380  
 aaaaaaaaaa aaaaaaaaaa rwmgaccc 1408

<210> 588  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 588  
 Met Pro Gln Lys Gln Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala  
 5 10 15

Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys  
 20 25 30

Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln  
 35 40 45

Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys  
 50 55 60

Ile

<400> 589

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu  
20 25 30

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro  
50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg  
65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile  
85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser  
100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp  
115 120 125

Val	Asp	Val	Lys	Ile	Thr	Gln	Leu	Gln	Leu	Leu	Ser	Leu	Lys	Met	Gly
130						135					140				

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn  
145 150 155

<400> 590

Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr  
5 10 15

Ser	Leu	Ser	Asp	Cys	Gln	Thr	Pro	Thr	Gly	Trp	Asn	Cys	Ser	Gly	Tyr	
			20				25						30			
Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr	Cys	Lys	
			35				40				45					
Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	Val	Thr	Cys	Val	Cys	
			50				55				60					
Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser	Asn	Gly	
			65				70				75			80		
Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys	Lys	Gln	
			85						90			95				
Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr	Asp	Ala	
			100						105			110				
Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu	Thr	Ser	
			115						120			125				
Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala	Glu	Cys	
			130			135						140				
Asp	Glu	Asp	Ala	Glu	Asp	Val	Trp	Cys	Val	Cys	Asn	Ile	Asp	Cys	Ser	
			145			150						155			160	
Gln	Thr	Asn	Phe	Asn	Pro	Leu	Cys	Ala	Ser	Asp	Gly	Lys	Ser	Tyr	Asp	
			165						170			175				
Asn	Ala	Cys	Gln	Ile	Lys	Glu	Ala	Ser	Cys	Gln	Lys	Gln	Glu	Lys	Ile	
			180						185			190				
Glu	Val	Met	Ser	Leu	Gly	Arg	Cys	Gln	Asp	Asn	Thr	Thr	Thr	Thr	Thr	
			195			200						205				
Lys	Ser	Glu	Asp	Gly	His	Tyr	Ala	Arg	Thr	Asp	Tyr	Ala	Glu	Asn	Ala	
			210			215						220				
Asn	Lys	Leu	Glu	Glu	Ser	Ala	Arg	Glu	His	His	Ile	Pro	Cys	Pro	Glu	
			225			230						235			240	
His	Tyr	Asn	Gly	Phe	Cys	Met	His	Gly	Lys	Cys	Glu	His	Ser	Ile	Asn	
			245						250			255				
Met	Gln	Glu	Pro	Ser	Cys	Arg	Cys	Asp	Ala	Gly	Tyr	Thr	Gly	Gln	His	
			260						265			270				
Cys	Glu	Lys	Lys	Asp	Tyr	Ser	Val	Leu	Tyr	Val	Val	Pro	Gly	Pro	Val	
			275			280						285				
Arg	Phe	Gln	Tyr	Val	Leu	Ile	Ala	Ala	Val	Ile	Gly	Thr	Ile	Gln	Ile	
			290			295						300				

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg  
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser  
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile  
340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

actaaagcaa	atgaacaagc	tgacttgcta	gtatcatctg	cattcattga	agcacaagaa	60
cttcattgct	tgactcatgt	aaatgcaata	ggattaaaaa	ataaatttga	tatcacatgg	120
aaacagacaa	aaaatattgt	acaacattgc	accagtgctc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgtcctaata	tgttatggca	aatggatgtc	240
atgcacgtac	cttcatttgg	aaaattgtca	tttgtccatg	tgacagttga	tacttattca	300
catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
ttatcttggt	ttcctgtcat	gggagttcca	gaaaaagtta	aaacagacaa	tgggccaggt	420
tactgtagta	aagcatttca	aaaattctta	aatcagtggg	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	ctaataagaac	actcaaagct	540
caattgggta	aacaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1			5					10					15		
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
		20						25					30		
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35					40					45			
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
		50				55					60				
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70				75					80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90						95	
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
			100					105					110		
Thr	Ser	His	Val	Lys	Arg	His	Leu	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly
		115					120					125			
Val	Pro	Glu	Lys	Val	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys
	130					135					140				
Ala	Phe	Gln	Lys	Phe	Leu	Asn	Gln	Trp	Lys	Ile	Thr	His	Thr	Ile	Gly
145					150				155					160	

Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg  
                   165                  170                  175  
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys  
                   180                  185

<210> 593  
 <211> 271  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(271)  
 <223> n = A,T,C or G

<400> 593  
 actttatggt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant 60  
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggt 120  
 gtccttagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga 180  
 nctagnatnt gcgggggtgc ggcctgggcc taccctttna agcatcctn gatccactcc 240  
 angaancng gggtagnacag gtttnccaac a 271

<210> 594  
 <211> 376  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(376)  
 <223> n = A,T,C or G

<400> 594  
 cctttggggg nggggggaac ctttaccatt gtnccctttt atttcatttg gttnggggtc 60  
 gcgcctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120  
 cgattaagcg ncaaatgtgt agcaaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180  
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag 240  
 cccacgangg ntctgtgtcg tcacatggnc tctagacata acgcncncn ttttttncag 300  
 agggggntgc gcgccttagg gaggnagggg tggggacact agccaancca nantctnacc 360  
 ccattgaaga aaaggn 376

<210> 595  
 <211> 242  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(242)  
 <223> n = A,T,C or G

<400> 595  
 agnctgctgn tcgtncctn tatgtggctt catnntgagg acaanagtng cactgaggct 60  
 tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaangggg 120

atgccangag cangtgcacc agtcccaact angagncccn ggcatgntac atcttcttcc 180  
 acccctnaaa ntttgngcta caangnccat ttttcttttt ctcttaaggg ncnctggct 240  
 tc 242

<210> 596

<211> 535

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(535)

<223> n = A,T,C or G

<400> 596

accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt 60  
 gaaagctttt taaatttttt cttaagaag attttagatg cttatcactg agtaccagag 120  
 ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180  
 ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctggtg 240  
 gggagaaggc ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300  
 tcctggtgct gacccagggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg 360  
 gcagtggccc ctttccatcc acactggaac tatttcagta tttaccacc aattcagcca 420  
 ttcccttgct cgctggctga acatcagccc tgctccaggt ctcagtttcc cctttgtaaa 480  
 gggaaagctc tggattcagg gagtgatgaa gaggtcatca tggctctgag aattc 535

<210> 597

<211> 257

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 597

ttttnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60  
 tntntaactt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120  
 attnctctta agatnngatn agaccccggt tttcacggaa catatccaag nacccaatag 180  
 gnaacaagcc acgggnggag tcacaaacat atattcttta ctctcataat ccgtnncaca 240  
 naactnttgn acttgac 257

<210> 598

<211> 222

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(222)

<223> n = A,T,C or G

<400> 598

nntggntacc gtcnaaactt nncttggtac ccgagctcgg atccactagt ccagtgtggt 60



ggaattccat	tgtgttgggc	tataagctgt	aatagtggag	ncgtgctngg	ttcattgcan	120
nagnccctcc	gcanncacnc	ttggnacaac	ctgtgagnag	gcataaatt	attcacataa	180
tcatactgc	atgaanctga	ctcaaagcga	tccacntaca	cc		222

&lt;210&gt; 599

&lt;211&gt; 238

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(238)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 599

gcatgacatc	ancgatgtnt	ttggnnacct	ganattngct	aaaactngng	natgccgggn	60
atgnaggttt	ggtantgatc	tatgcactca	catctcatgg	ggacgtttca	tgtggagtgn	120
tcgacaangt	tgctgnancn	gagaagtgat	gatctcagtt	gaaagggta	tgtgaataca	180
cnttacactt	gaaaaagaag	cacattggga	atatcacgaa	acgnccacca	acatcctg	238

&lt;210&gt; 600

&lt;211&gt; 232

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(232)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 600

cgaactattt	agactaccta	ggaaaattat	tttagtatca	gaagaatata	aggggtgtag	60
tactcatcag	agctaaatga	gagcgcttta	aaaatgttag	tttgtcttcc	gccatttcta	120
cagaaagctg	caatttcagg	ttttcaacct	aataggatgat	atttaanaaa	aaaaaaaagc	180
aatcgcaaat	agccccactg	ctttttacaaa	tcattttttc	cccaacacaa	tg	232

&lt;210&gt; 601

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(547)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 601

cattgtgttg	gggaaaaaat	gatttgtata	agcagtgggg	ctatttgoga	ttgctttttt	60
tttttcttaa	atatcaccta	ttaggttgaa	aacctgaaat	tgcagctttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaga	240
catgtaatcc	gcggagttag	taactcaaaa	cgagtgcata	tnggaagtat	cgcagccggt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcggtnaa	aaaaacatct	360
gcagcccngg	ggnaaaaacc	ttcgattgt	tcttacgtgt	ttacgttatt	ttatttcoct	420

nnagcaaggc	nggganttgg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaaag	ncgtccagaa	gagggacggt	tacaggcngg	ganctccaaa	ggtcagtc	540
tgccatt						547

&lt;210&gt; 602

&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(826)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 602

cggggggnnt	tacgtctctc	tgagcgcttt	tattgtacca	gggcatccc	agcccaactg	60
taccattcga	gtccctactc	ctgccttgct	ctagggaaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccttagg	ctgcagattg	tcttcttcac	cgccctgct	180
tagctagcta	gctagctggg	aatttaatcc	agaaacggct	tgcgatacct	cctagatgca	240
ctcgttttga	gttacaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaat	tatttttagta	tcagaagaat	atcagggggt	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagtttgct	ttccgccatt	tctacagaaa	gctgcaattt	420
caggttttca	ncctaataag	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccaact	480
gctttttaca	atcatttttc	tcttctaggt	atagcctgtc	aggtggccta	atgtattttt	540
gacatctcta	ggaattttta	tagaccagaa	atgggtgcc	gagatatgcc	tgactaatc	600
ttaagtggg	atattatgtat	ttctcaanca	agtattaaa	gcaaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaaccca	naaggtctga	ataccaaacg	780
nccctgaacn	anagaacaan	gccggagcac	ccctcccaa	atcccc		826

&lt;210&gt; 603

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(817)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 603

nnangacttt	tgtggtntta	tacaattntt	ttttctattt	ctatgaagag	aaagccacag	60
agtcctaaaa	taattctaaa	actcatcatg	actttcttgc	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt	180
agtgcaggca	tatctctggc	accttttct	ggttctatta	aaattcctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc	420
atthagctct	gatgagtact	acaccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcatctagg	aggtatcgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcagggggc	ggnaaanaag	acatctgcag	cctagggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttctanaaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttgggggtggg	ggatcccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaaaccca	780

agggtcgtcc tgcatttana ctcggaatth ttggtgcc

817

<210> 604

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 604

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gacatct	cta	ngaatt	tttaa	tagaacc	aga	aatggg	tgcc	agagat	atgc	ctgcact	aat	120
cttaagt	ggg	gatttat	gtata	tttctca	agc	aagtga	ttaa	agcaaaa	acta	ggcacg	attg	180
aatcaag	at	cttttag	gca	anaaag	tcat	gatgag	tttt	agaatt	tatt	taggact	ctg	240
tggtttt	ctc	ttcatag	aaa	tagaaaa	aaaa	aattgt	tata	aaccaca	aaaa	ggtcct	gaat	300
agccaaa	agca	acactga	nca	aaaaga	acan	agcagg	gaag	caacaca	acta	ccnga	attca	360
aattata	cta	ccagggt	gta	gtaacca	aaaa	cagcatt	cta	ttggcata	aaa	atagaca	cca	420
agacca	atgg	ancaga	ataa	agaacccc	ac	aaataa	atcc	atata	ntac	cgccan	ctga	480
ttatca	ataa	cnaacac	caa	gaacata	nt	taaggga	cant	nctatt	tcaat	aantagt	gct	540
ggnaaaa	act	gggaa	atcca	tatgcag	aaa	naatga	aact	agaccoc	tat	ccctcac	cat	600
acgcaaa	ant	caacttc	cgga	atggg	attac	aaaact	ttaag	acattcca	ac	ccaagaa	act	660
atnaaan	cta	ctatta	agaa	aacagat	cnc	nccc						694

<210> 605

<211> 678

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(678)

<223> n = A,T,C or G

<400> 605

taaaaat	cta	gactaca	cta	ggaaatt	tatt	ttantat	cag	aagaata	tca	ggggtg	tagt	60
actcatc	ana	gctaa	atgag	agcgctt	ttaa	aaatgt	tagt	ttgtctt	ccg	ccatttc	tac	120
agaaag	ctgc	aatttc	caggt	tttcaac	cta	ataggt	gata	tttaaga	aaa	aaaaaa	agca	180
atcgcaa	ata	gccccac	tgc	ttttaca	aat	cattttt	tct	cttctag	gta	tagcct	gtca	240
ggtggc	cctaa	tgtaatt	tttt	gacatct	cta	ggaattt	ttaa	tagaacc	aga	aatggg	tgcc	300
agagata	tgc	ctgcact	aat	cttaagt	ggg	gatttat	gtata	tttctca	agc	aagtga	ttaa	360
agcaaaa	acta	ggcacg	attg	aatcaan	at	cttttag	gca	agaaa	gtcat	gatgag	tttt	420
anaatt	tatt	taggact	ctg	tggtttt	ctc	ttcatag	aaa	tagaaaa	aaaa	aaattg	tata	480
aaaacc	acaa	aaggtc	ctga	atagccc	aaa	gcaacac	tga	acaaa	angaa	caaagc	cagga	540
agcaac	acac	taccgga	att	caattata	ct	accaagg	tgt	antaacca	aaa	acagcat	tct	600
attgggc	ata	aaataga	cca	aagacc	agt	ggaaac	agaa	taaaga	ancc	caaaata	aat	660
cctatat	tttta	cngccc	cnc									678

<210> 606

<211> 263

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 606

gtggggtcng	cancagccaa	ctcagcttcc	tttcggggctt	tgttagcaga	cggatcatcc	60
tctagtccac	tgtgntcaaa	ttccattgtg	tggggggcnc	tcgcctcggc	canagatctg	120
agtgancana	cntgtcccca	ctgaggtgcc	ccacagcngn	ttgtnttcag	cangggctna	180
caactcgacc	ggcagcgan	ggctggcaga	antgngcgcc	tnnctcattc	ctacgcngtn	240
ngccgcagga	aggangacag	gcc				263

<210> 607

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 607

ccatgtgggt	cccggttgtc	tt	22
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<210> 608

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 608

gataggggtg	ctcaggggtt	gg	22
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<210> 609

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 609

gctggacagg	gggcaaaagc	tggggcagtg	aacctgtgc	40
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<210> 610

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

T024404.10454.1

<400> 610  
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 <210> 611  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer  
  
 <400> 611  
 gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46  
  
 <210> 612  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer  
  
 <400> 612  
 gcacatgggt cactgcccc gcttttgccc cctgtccagc 40  
  
 <210> 613  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer  
  
 <400> 613  
 gccgctcgag ttagaattcg gggttggcca cgatgggtg 38  
  
 <210> 614  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer  
  
 <400> 614  
 cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca 53  
  
 <210> 615  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer

<400> 615  
gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

<210> 616  
<211> 1350  
<212> DNA  
<213> Homo sapien

<400> 616  
atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccga ctcgcagccc 60  
tggcaggcgg cactggtcat ggaaaacgaa ttgtttctgt cgggcgtcct ggtgcatccg 120  
cagtgggtgc tgtcagccgc acactgtttc cagaactcct acaccatcgg gctgggcctg 180  
cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240  
cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300  
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360  
gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420  
gtgctgcagt gcgtgaacgt gtcgggtggtg tctgaggagg tctgcagtaa gctctatgac 480  
ccgctgtacc accccagcat gttctgcgcc ggcggaggggc aagaccagaa ggactcctgc 540  
aacggtgact ctgggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600  
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660  
actgagtgga tagagaaaac cgtccaggcc agtattgtgg gaggctggga gtgcgagaag 720  
cattcccaac cctggcagggt gcttgtggcc tctcgtggca gggcagctctg cggcgggtgtt 780  
ctggtgcacc ccagtggtg cctcacagct gccactgca tcaggaacaa aagcgtgatc 840  
ttgctgggtc ggcacagcct gtttcacact gaagacacag gccagggtatt tcagggtcagc 900  
cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960  
ggtgatgact ccagccacga cctcatgctg ctccgcctgt cagagcctgc cgagctcagc 1020  
gatgctgtga aggtcatgga cctgcccacc caggagccag cactggggac cacctgctac 1080  
gcctcaggct ggggcagcat tgaaccagag gagttcttga ccccaaagaa acttcagtgt 1140  
gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcaccctca gaaggtgacc 1200  
aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaacctagt 1260  
gcctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag 1320  
gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617  
<211> 449  
<212> PRT  
<213> Homo sapien

<400> 617  
Met His His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro  
1 5 10 15  
His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe  
20 25 30  
Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His  
35 40 45  
Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu  
50 55 60  
Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val  
65 70 75 80  
Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu  
85 90 95  
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile  
100 105 110

Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser  
 115 120 125  
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys  
 130 135 140  
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp  
 145 150 155 160  
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln  
 165 170 175  
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly  
 180 185 190  
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val  
 195 200 205  
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile  
 210 215 220  
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys  
 225 230 235 240  
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val  
 245 250 255  
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His  
 260 265 270  
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe  
 275 280 285  
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro  
 290 295 300  
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro  
 305 310 315 320  
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro  
 325 330 335  
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu  
 340 345 350  
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu  
 355 360 365  
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His  
 370 375 380  
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr  
 385 390 395 400  
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly  
 405 410 415  
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val  
 420 425 430  
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu  
 435 440 445  
 Phe

<210> 618

<211> 385

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(385)

<223> n = A,T,C or G

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<210> 619
<211> 869
<212> DNA
<213> Homo sapien
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<400>	619						
gatatcccg	gaattcgcg	ccgcgtcgac	ctctacttgt	ttagacataa	atgcagtcta		60
gcattaaaga	tcctttaaaa	aaatgttttc	ccaatgggta	aaagacaagc	tcaaataaat		120
gaactctcat	acatatgcca	aaattgatga	gtagataaat	atttcagtag	gtagttacta		180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga		240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaagggaag	gaaacaatga		300
atgaatgccc	ttattcctct	tagagtgtctg	ggacatgggt	ttgcctgaaa	acttcatgtg		360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc		420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc		480
ttccccaaat	ttttgagaca	gatggatttt	ccggaaagat	gtgttttagct	tttaatcctg		540
tggttttgtg	taccacctgg	cacactagag	tgttgctcta	attcagtgag	ttgtaactct		600
gggtgaacag	tggaaatact	agggtacatt	ttaaaaatgc	taatgtctcg	gcctcgctga		660
agaccaaatt	aattggaatc	tctgngggng	gnattgatct	ttttataatc	tttctanang		720
attctaattg	gcttccaggg	atgaaaaccn	ctgntggagc	tnggaacctt	cttttagttt		780
ggagaaaccc	cgatgagggt	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccctt		840
tatnntnttt	tqgaangqnc	cnaatttttt					869

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<210> 620
<211> 339
<212> DNA
<213> Homo sapien
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<220>  
<221> misc_feature  
<222> (1)...(339)  
<223> n = A,T,C or G
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<400>	620						
gngcgggcct	cnccggtgctt	gctctcgctg	ccgacgctct	ttttccacca	gctgtaggan		60
aagcccgaag	accactggtc	ccccgggtag	cccaagtacc	actggtcctc	ctggctcctg		120
acgctncggg	tcttcctcgt	ggcgtagact	gccagcttcg	gagacccctc	agccctccc		180
cgctttttctc	caccccagga	ggccatcagt	agcgagctac	tgctcggcc	acaacctccc		240
agcangatag	cccgcggttt	ccaatctgcg	aaaggaggac	cgccnagccc	gaaatgccna		300
gcccagcnat	cactgccacg	ccgagccnag	cgctcgtgc				339



<210> 621  
 <211> 267  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> n = A,T,C or G

<400> 621	
gggngcatg gtccnngta gccaaagtaca tggctcctcct ggctcctgac gctacgggtc	60
ttcctcgtgg cgtagactgc cagcttcgga gaccctcccg cttttctcca	120
ccccaggagg ccatcagtag cgagctactg cctcggccac aacctcccag caggatngcc	180
cgcggtttcc aatctgcgaa aggaggaccg ccnagccaga aatgccnagc cnagcgatca	240
ctgccacgcc nagccnagcg ctcgtgc	267

<210> 622  
 <211> 847  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(847)  
 <223> n = A,T,C or G

<400> 622	
cttangntgt cgactgacgt catgcatgan ttaaagcaga ggtttggtga aatttatgaa	60
aaatacaaaa ttccggcttg tcttgaggaa gagccactac ttgataactc tacaagagga	120
acagatgtga aggatattcc ctttaatttg acaaataaca tacctgggtg tgaggaagaa	180
gatgcatctg aaatatctgt ctcaagtggta ttcgagacat ttcctgaaca aaaagaaccc	240
agtctcaaaa atatcatcca tccatactat catccgtact ctgggtccca ggaacatgtt	300
tgccagtcac cttctaagct tcatttacat gaaaataaat tagactgcga caatgataac	360
aaactaggca ttggacatat ttttagtaca gataacaact ttcataatga tgcaagcact	420
aagaaagcaa ggaaccaga agtggttacg gttgaaatga aagaagacca agagtttgat	480
ttgcaaatga caaaaaatat gaaccaaata agtgacagtg gcagtacaaa taactataaa	540
agcctgaaac cttaaattaga aaatctgagt tctttaccac cagattctga cagaacatca	600
ggaagtatat ctacatgaag aattacagca agacatgccaa aaagttaaag aatgangtca	660
acacattaga aanaagantt ctggggctttg aagaaagaaa atgttccact tcataaagaa	720
ggttgaaaga agaatgggag agcccngaana tttttgcccn gaaattttcg ggaaccctac	780
tggtggtg nactggttg ccatgaatga ataatggact aatcnnccaa ttcctnggga	840
agggaat	847

<210> 623  
 <211> 681  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(681)  
 <223> n = A,T,C or G

<400> 623  
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 aaangctcan gcagcccggc tggccgcgcg cgtctctccc cccaggaaag ccaangtgga 120  
 ngctgatgtg gctgcangag ctogttttcac agccctctcan gtgganctgg ttggggccgcg 180  
 gctgccangg gcggaagtgg gtgtccccc cangtcagccc caaggctgcc cctcacaaag 240  
 cactgggtgg ttgcctccac tgcacacttg ggctccgaac ccgtctccct gctgtggang 300  
 cccaccgtgg gaatccaggt ccccaggtgg actgcctgcc ttgcctcac tgccactct 360  
 gccacactt ccctgcctag anaccgggaa ggggctgtgt cggtantggg gccacactgg 420  
 atgtggcagc accgactgtg ggggtggacc tggccttgcc gggtgcaaaa gtgggggccc 480  
 ngggaaaagc acctgaagtg gccctgaaaa atccccctt aattttnccc caatttgggg 540  
 ctcaaaaaa aggaaattgc tgaagccaan ggtaccaagg tccccctaa ggccagggtg 600  
 aaaaggtccc aaaattccaa tccccacnt ttgggttnc ctcttggaac cccggcccc 660  
 tctctgaan ttttaaaaaa n 681

<210> 624

<211> 661

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(661)

<223> n = A,T,C or G

<400> 624  
 attggtctta ctgtaccacc ggggtgaaat cgatggccgc ggcgtctaaa tatccgattt 60  
 tttttttttt tctcttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa 120  
 aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc cacnccggtg 180  
 ttgttacctt ttggtcttgt ctctgaacat gaaattnatc tcaagggtt ngatttctgg 240  
 acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg 300  
 gntgacagnt acctcctagc coatanctc ctatcttggg aaacaaacct aacaactacg 360  
 tgtaccttc atagatctct gattgagtct cagtatnccg ttgctcatgg gcgattcact 420  
 tgaatccgtn attgtgcca acaatcctga ctcatggggn aatggatcct atcacgttcc 480  
 cctgattngc aacccctgta tacatanatc taatcgcata gaatctagon tnggntatgc 540  
 gcggctacgc tatcagggtg tgntaactat ngcatggcta cgaanctga tcatgatcna 600  
 gggctcatgga ctcttatcag gggggttggg ccngcttct ttttcnnacc ttggtaaaac 660  
 c 661

<210> 625

<211> 181

<212> DNA

<213> Homo sapien

<400> 625  
 gcaacaatca gatcatgtta aagtaaactc ccattgccct ggatcacttc aggatttaat 60  
 tgtccaagga gagcagggtt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120  
 aatacaaaat tcaaccggtc gaaaatacac cactccattc agtgctctac ccccataagc 180  
 c 181

<210> 626

<211> 181

<212> DNA

<213> Homo sapien

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<210> 627
<211> 813
<212> DNA
<213> Homo sapien
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<400>	627							
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gtggcacagg	atgttaaaaa	aattctcctg	tccttaagga	gttactgcta	tttgagtaat			180
gtgccacttc	cctacatagc	cttctatgca	gaaatgctat	atttccactt	cacaaccag			240
aacgtgcatt	ttattttaca	tttagaggag	gaacaaacaa	ccagaaggca	aaaactgggtg			300
cattattttt	tgcaattctc	ttggaaagag	ttcgttttta	acttctgctc	agacagcaca			360
caactactgg	gaatatattt	taatttcaaa	tctgatgtgt	gacatctggt	aactcattta			420
ttgctaata	agttttcaca	ggaagcagca	gtcaccagta	gtcatcttta	tttttcagtt			480
ggcaaagtgt	tgtttacctt	ttattggcct	gcacgggtgt	ctcttatcac	aggatattta			540
attagaaaac	gcaagtagcc	taacatagaa	nagaaatgga	gtggtagata	atagtagata			600
gaatggctaa	atatttttat	tacagtgatg	taatatcact	gnaatttatg	gttaaaaaatt			660
atgtaatact	caaaaggaa	tctcagactg	gcgaaacagc	tggncaacag	ctntcacagg			720
gctttanact	cctnntgagc	tttccccctg	ntggacttta	gtcttccctt	tacncccgna			780
gttnccattn	nttaccaatt	gtncgggaa	ana					813

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<210> 628
<211> 646
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G
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<400>	628						
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agactacctt	agaggaataa	aggaaaaaag	cagaggagga	agagtggtag	aaggagtcag		180
aagaaaccca	cacgtcgttc	tgaacctgga	gccttatcaa	aaaggtctag	ataaacgata		240
gcatctcga	tatcgagctc	aagaggtagg	tttagagact	tctcgtcctc	gagagcgaaa		300
tggaagatct	cgacgacgat	aagaagttaa	agtgtagagg	gtgcttgagg	agcgctgga		360
aggattctgc	ggagggaccc	atcgacgtag	agacttgaag	gcctactaag	gtccacgaag		420
agccccgctc	tttctccgaa	tggtcggagc	gtacagtatg	cgacgtcgat	cggcagacaa		480
gctggcggtg	gactcgaagt	tgtcgggcga	atcgacttat	aatagtcgcg	cgctagtaac		540
gtaggaacac	gaagagtagt	cgaaagaaaa	cgtttagtga	gggaaaagat	tagggaaaaa		600

ggagaggctt aataactaag acacttgag cctaggccaa cgcgaa

646

<210> 629  
 <211> 617  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(617)  
 <223> n = A,T,C or G

<400> 629  
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 ctacgccgga caacggaccc tataccaatt cgaatcttgg acactccgac cgccggattc 120  
 tcttcccctt tcggcttccc ctttctgtcg gtacccctcc ctatcgctct cctacacctt 180  
 cgtaccgtcg atatatagtc gccgcggact agcctattta ggtgtcctag actcgttatt 240  
 gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300  
 aatcctccac aagttccgac gaattcctgg actctcgtag tagcaaacct tcttatgagg 360  
 cttccttgta tatcttctgg atgtttctcg tgtcccgttc ctccgctact actagagctc 420  
 cttgccctat ctctagaagt agaggactct cgggttcggt ctccaaatct agcgctagag 480  
 ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540  
 ctcncatct tccctcgggt gctccttctt ctcatcccc cttcccgctt tctcgggaan 600  
 gaatctactt tancttc 617

<210> 630  
 <211> 644  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(644)  
 <223> n = A,T,C or G

<400> 630  
 cnntcggcnt gggttttntt ctgagnnncc ccccccccc cccccccaaa cttacaccca 60  
 ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120  
 taaagtcttc tacctcggaa gtagagaatt cgggtattta attcagggtt agaggctcgc 180  
 tcgttagatt tatagttagt gtttagaatc ggaaaccttc gatcttcctt agaagggtaa 240  
 taagtgaggc cctaaatccg tctaaccaag gcgttaaggt ccgtacctaa acctagtctt 300  
 atcttctatc aggcgcacca atatatagtag gttctacttt cgtataggcc ttaaggaata 360  
 gttcggtagt tatcgaaggc actcctctct aggetagget tttctcagtc ttagtactcc 420  
 gggaccgtcg tcgcanaaat atcgaaggac ggtaggtatc tccgcgttac gcgtcgggct 480  
 agggatatag agcgaattat cggcgagagg cggtcgctan gaatcgggat caatatgntg 540  
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 atcggacccc taaaataaca gtaacattta gantactagt accc 644

<210> 631  
 <211> 526  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(526)  
 <223> n = A,T,C or G

<400> 631  
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 cccatagccc caccggnccc acccaaat taaacaaata aatntaccta tcgntcacct 120  
 atcccnegta tcgngtaggt cggtaccggt accgngatc ncnacgattn ttccgggtcgt 180  
 cnccttaan acggncccggt agccnccgga anaaatacta cgagngactc taatntagca 240  
 anaccgccc tcnattanta gcatccttag tcttccaatg ncgnggattn ngaatccttn 300  
 naagttatcg ggtagaacgg gtcccgtcc cccgcctct ttncaattaa cgccgggtac 360  
 aaantcgggt tctaaattcc ncacgaattt ngncggcaac attcncgggn ccttattanc 420  
 cntttccaac ccgatacnc nagctcgatc gggctttanc gaatccgggg tcnccccga 480  
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<210> 632  
 <211> 647  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(647)  
 <223> n = A,T,C or G

<400> 632  
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 gtgttttgag tttcttcttc gtctctctcg ggaggttcgg ttccgattga gattcgggtt 120  
 cgtctttatc ttacgaggca ccctgatatt gttgcgcttt ggtttggttg tggagagttt 180  
 tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt 240  
 gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg 300  
 gattgggaga tatagaatca taagtgttag gtataggctg attgagcgag ttcgtggaat 360  
 tcgtgtggtc atcataatta gaggtaggat gggctctata tttcttagag gacgcacggt 420  
 cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt 480  
 aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttgtgga tattgtggnc 540  
 tanactatct agtgtaagcc ggaggtgggt tgccgtggtg gaggatccga nnttcattcg 600  
 ganggtatgc gtgcggagcg gtccctgtag acattccgga aaaatgg 647

<210> 633  
 <211> 630  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(630)  
 <223> n = A,T,C or G

<400> 633  
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 gtcccccacc gtctctctaa tctcaggaa ccgatccacc caaccaactt actaatgtcc 120  
 tacagtaaac acccgagaat ataaacccac acctaggcct ccaatcctac cagggaagca 180  
 agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt 240  
 ctctcggaat aggaaagacg actggggagg gaatatagga tagcgcgagg ataggggcta 300

tggcggatat	gggggcgggt	cgctctctta	ttcttctata	ccacgtcaat	aggaatgtag	360
atatacctag	atgttcccgt	agaaagagac	gttagaggtc	tccgaagcta	taaaggagag	420
gcgcgaagaa	acttcgtact	ctagctttat	ataggtagtc	gctctagtcc	cataagcgac	480
gagagatcta	ctagatttcg	gtatcgccgt	cgtatgtatt	cgaaatagtc	ttcttcccct	540
tttcgatctc	ctctctatac	tacatggnga	ttatagtctt	aagatagtca	ggatattagg	600
atattagtta	tatgacgttc	gacgggacgg				630

&lt;210&gt; 634

&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(647)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 634

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caaccctata	gtttactcgt	atagggggat	cgaggagaaa	taggaacgaa	gagcgggtga	120
taaagagaaa	gtactttcct	ttatatgtta	agagcttagc	gtaatgactt	tcgttatatg	180
gctagttagt	tttatccggc	gttatagggc	ttagtctctg	ttatctcggg	tctaattccc	240
ttagtatgct	cgggagttaa	acgaggtcac	gggatagcgc	gtacccttcc	taaggttcct	300
ggaaagctat	tcgttattta	tcgcgattct	cgaggtcgaa	aggatcaagg	atcttccctt	360
ttactaccct	agtcgggtta	gcggtcggtc	aaaactagtg	tagtaccttt	acctcctcga	420
aagttatagt	cgaaacaacg	tattagtcga	aattatagcg	gatagatcga	gacggttcct	480
tctcgggttc	tcagccggta	atccctctat	ttgggggtct	tctccctctt	cccctttgtc	540
ttccgcctta	gcttccaagg	ttcctcggaa	gcgaggggtt	ctacttaagt	cgntagcggt	600
ccttataaac	cncctacagg	cagaccccc	tgtaaacggc	tcgggggt		647

&lt;210&gt; 635

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(645)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 635

ccttcggctt	gggttttttt	ctgagcccc	cccccccccc	cccgaactc	gccttacctt	60
agatacccaa	agaatagttc	cactcaactt	cgtctaagta	aaactctaga	acttccaaac	120
ataaaagact	tcgcgcgggt	agctacacag	cctacgggaa	tctcacgaat	cccgattcaa	180
gtcccactct	cgaccacacc	ccggtatcgt	cgttttccca	taccaatgtc	gaaaaataaa	240
ataaaatcca	gtcaagcccc	acggtaagcg	gggtagggc	taggcgaaga	ggcaggaacc	300
gttcgaggcc	gggggctttc	aaaatacaaa	acaactactt	aaagtttacc	ccttctaaag	360
tcggggggcaa	cggttaaagc	acgcctctaa	agtactactc	gtttcgagaa	ggggtagtca	420
tctcccgcat	agagactctc	gcgtatatca	actcgcacgc	cttctagcat	tccgacggtc	480
gcccgcggct	acatatcttg	cggattagct	ccgagggact	atagggttaa	ttagtctagt	540
aaattctctt	agaggatagt	cggggtcgta	gttaggcagt	acgaggggac	atggnctgcg	600
tcgtgctcta	ccttgacagc	atactcttat	aaacatcttt	ttcct		645

&lt;210&gt; 636

<211> 643  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(643)  
 <223> n = A,T,C or G

<400> 636

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accgagattt	tattaatcgt	aaaactcgcc	ttcggtagca	agtcttcctc	cttcccgtaa	120
cctggctccc	tcctagnngc	tttacgaacg	tccctcctct	tcttacggct	cggaagtgg	180
tacggttaaa	tcgggagng	gggctaacga	atccaaggct	aactcctctt	anagtttggt	240
gtccnncngt	ttagtaagga	tccgtggagg	gcgagtattt	gncccccggc	ctttattnta	300
tagttcccta	gtacgataaa	gntaccggct	atcctattac	agcggataaa	agttatttan	360
agggccgacg	tcnccgctag	acaggctaca	gctagnngag	gtaccgcctc	cgactantcc	420
gttgnttcgc	acaaggnagt	ttcggttaac	tccacaaact	cctccgcoga	ctctanggtg	480
gggacggcag	ttccnncggt	tagtgtgcgt	tatagagaag	ggcatttgag	ttggacgtta	540
cnttttaaca	taggttattc	cgtttaggtt	cttgccggcc	cgtgggggta	gtncnccggc	600
gcgttnntat	cggcgatttt	ccgcagtttc	cgtttccggn	tnt		643

<210> 637  
 <211> 631  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(631)  
 <223> n = A,T,C or G

<400> 637

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cgctgggaag	actagaagtt	agctacggac	gattagtgtg	attccactct	taataacgag	120
taatcgttta	cgtcgggttg	gtgtttcggg	gttttgagga	gtaagcgtag	ttgtggagtt	180
tcgcataatg	gtccccctac	ttcggcgatc	tcgtcttctg	tcggttaggt	tattattggt	240
catacttcgc	attagtagta	gggttggtcg	gataaatcga	tagctattct	ttagaattcg	300
tagtcggaga	attcgtgtac	gaagtccttt	aagtcttcta	agttcgcgag	taagacgtgt	360
acggttattt	tgctcgtcgac	gtaggtgtcg	tttacgggag	tttcggttta	gggggttacg	420
tagaacgtta	ttaagcacgg	taatacgata	gaggattacg	cgacgtattc	gtcttagaac	480
gtcgattttt	cgaaggcgca	tttggtatcg	aaggggagtc	cttgagagaat	cgagatattc	540
caagaatatt	acggagatta	cagatcgga	ggctcccag	atcggacgta	ttaccggtct	600
cgcccgaaac	gagtaggtat	cntccggata	a			631

<210> 638  
 <211> 606  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(606)  
 <223> n = A,T,C or G

<400> 638  
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 caataagtcg ggtcgaagtag aggggaatcag gggctgggtan aaaggaccac gggcggaaaa 120  
 taccgggtctc cttccgggga gcgacgtcgg ggaagggga gagagcggtc tagttcgtag 180  
 gcaaacagggt cagaaaagtt aaggttaaag gtcggagggg agaggatagc tagtacgctt 240  
 agttcggggc tcgggcgcag ggccactttc ctcttttcgcg ttcctttact ctgcttacga 300  
 gttcaggctc cggagttccg cgcgggaggt cgtcgcgcag ctaggaatgg ggactcgcctc 360  
 agtccccggt tatccttcgg gattctatgt tttcgccgat agacggagac cgggtagtag 420  
 ggttccgctc taccgccact cgtcgccttg atccggcccg ctccgcttaa gggcgatgaa 480  
 agattaggtt ttagggctct acgggacgag gcatagggcg ggagaagggg ggaggggtcg 540  
 ggggtcgaag ggantaagaa atcgcantcg cgcgggggtcg gtagganccg aaatttttct 600  
 cnnctg 606

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639  
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 atcccaccct accgcgggga gtgggttgna cgcttagttc tagaatcctc ggaatcgtcc 120  
 tccggcggtg gtagttccgg cgattccgag tatgcogaag tgtatcgctc cgtctagagg 180  
 ttggtatctg tttatcgaga tgacgctatt gactcggatg ctttcgaagt agggggatag 240  
 gcgcatagat acgcctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag 300  
 acagctctgg tggacgataa cggcttctcg tactcctact ccggctatta tgtagagag 360  
 gacttgtttc tgaacggata taccattagc gaaggggtac cctccgctaa cgcaggcggt 420  
 tctaagcgtt cttccgggag ctccgaattt agattgacgc ctccgcagca ttgtgggac 480  
 ctcttcggtt agccctcttt ataggatttc tctccgccc cgaaagangg ctggtcgtcc 540  
 ccggcangta tgtctagctc gaacgccttg ttactccttt gttttcgaaa na 592

<210> 640

<211> 637

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(637)

<223> n = A,T,C or G

<400> 640  
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 gggctcccga agtagcttag gatcgccggc tagttccggg cccgcccgtc gaaagcgcg 120  
 ttcggcgggc ggccccgct tcgttcggcg gctttaccct catagagtgc caggtctcgg 180  
 ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgcgcgttta 240  
 cgttcgggtc gcatctacgc ctagtccaca ggtagtttat gcgccggagc gcgtgacgga 300  
 gaggttatac gggacgcgga agaaccgcct ccaaagtact agtacaggct cgttcggggc 360  
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<210> 641
<211> 649
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G
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<210> 642
<211> 645
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G
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<210>	643
<211>	586
<212>	DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

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ggtccgcccc	gaattaaaag	cgggatcccc	aaaacgnngn	ttcgcaagaa	gagaagaatc	120
atagcgatag	anctttcata	gtacaaaggt	aactaagagg	aaaataatgc	agattcagaa	180
ctagttgccca	aattagaact	cgattaggcc	aaggatccga	gcctggcgct	atcacttcgg	240
gacttaagct	acggtagagc	agtcggtcct	gaagcatagc	tcccgtagga	cgtaggaaac	300
tagtccggca	cggaggacat	actctcgagt	ctcggaacgt	ctatttagaa	tataaacgca	360
ttaacctcag	aaggcgccga	cgcggttact	ctctagggaa	ctatttcatt	ccttcoggag	420
ctccccctatt	tttccaacac	atataccggc	aaaggaaaat	cttntgtcct	cggtctaaag	480
agagggaaaaa	aaaacgatat	ctaggttcgg	gtttatccat	ttaaaaanat	ngacgcgact	540
actccctttc	aaaggggagtt	tccccctagg	nagagttcaa	cngaag		586

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

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agggctatTT	gacttgtttc	tcaaatacca	tggtatgggt	ggtggcgtgc	ggggtggcgg	120
tcggttcggc	gggggtgggg	gtcgtcctcc	aaaggagttg	ctagagggct	tttagtgggt	180
ttagggcggg	aaggggttag	agcggagaga	cgtcgtcgtg	gaagcttctg	gcggagcgcg	240
agaaggtagt	tagcgccggt	tcggaagatt	ctcagaattc	gagaagaggt	agtggggcgc	300
ggagagagag	tttctaagtc	taaacgtaga	ggtcgtccta	gtcgggccgg	gagtagcttt	360
taagctagag	gtcgaggtcc	tcgttttagc	tccgggtctc	tcgggcagta	tcctctttct	420
cgaggaacgg	agcgaccgac	gtcgtagccg	gacccgtcta	tccgtacgtt	tagagatacg	480
ctcacctcca	cgggcgtata	tgcccgtata	cgtataaacg	cgtaataatac	tcgcgcgtaa	540
aacacgtata	cactatatac	acgcacgtga	cggaccgtat	agcgttatac	gcgcgcgtat	600
attaatttac	acttatatac	gcgttaacac	gatatatcac	acnccg		646

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

ncntcggct	tggtttttt	tctgaccccc	cccccccccc	cccccggtcg	acaacgtgcc	60
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caccgttgcc atcccagcat agctgggtcg ttctgtttta ttcttagtag tttagttcgc 120
ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgtctt ttagggcggg 180
tatcttaggt attcttctgg ttctcggtgc cgtctcggag tctggtcctt ttgctttcct 240
ttcttggtcg aacttcgtgt ttgatcgcgt tgtttctttg gggtcgtcat acctaagggc 300
cacttcgcca acaaacaagt ttgtgtagtc gtttctatta gggttcgtg gccggcgctc 360
ttactggttg gcgattttta acgcgtttgg ttttaatttg ctctctcccc tagggctcgc 420
tcgggtcttct ctctgttcgc tgctctcgtc cggcctttgg tgcggggata gctccggcta 480
ttancgtgcc gtgtccgtgt ggnttttgtc caatgtgaag gcctaggggt gcgggcttct 540
ttggccatgg ntccccctct tgtgancctt aggggtaacg antcgtaatt naaggtcggg 600
ggttggnata cgttntangg gangcctgng tccgntatto cttgttttgg cctn 654

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<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 646

```

tccttcgggt tgggtttttt tctgagcccc ccccccccc cccccacgcc aagtacacag 60
acccacaaaa aacaacgtca acacaacttc ggttatacgg accttaagag agaccccgta 120
gtagacccta ccacagccat ccaatagtca aacaacaagg gcgcacccaa tccatccata 180
gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt 240
cggcactaat tcctttcaag tactcgtctg gctttagatt cggggtaaag tccgctctca 300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaatcgcc taaaccggca 420
aaaacgacca aaagtcaaag acccttacia atatacctt aaaacgcaa ccccaaaaac 480
gogatcagta acgcacgtac ctctccacg cttttcttct tttcactctc caaaacaaac 540
ccgaatatatt agcgcaaaaa atatacggag gagaattaga agctattacc cgaaaaaaaa 600
nccganangg antaaatngt ggggaatana cgtttggttt ttctg 645

```

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 647

```

accttacctg gtaccgggcc cccctcagag tttttttttt tccaaatata actcagattg 60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cctttgataa 120
tgattttttt tgtgttaaca attgtagtag ataaaaatcg attcaccatc cttctgatgc 180
catattgatt agtttgattt tatggtgatg ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatataa 300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtgttattc ataataattt aatagcttct 480
gagggtgttt gttcatgtga tgaaggctta tccacctgtt atcaattcat gggctctgct 540

```

```
<210> 648
<211> 383
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(383)  
<223> n = A,T,C or G
```

<400>	648						
gatatcccg	ggaatg	aggcctt	gttacct	gttaccgc	gttgcaaag	cc	60
ttgncaa	attccgc	ggagcgg	cgaggtg	gggac	gttgaaac	agcc	120
tcgtcgg	cgtcag	gct	ccaaaac	cggtctag	gggacgac	tgcagc	180
ggaggcc	accg	gcggct	acggc	ctcccg	gttgagg	ctggag	240
gggaatc	ttgat	cctggg	ccagcc	actgt	caagagg	agcggtc	300
agactgg	atatt	ctccag	ggagc	ctga	cgaagg	cgaa	360
tgaatgc	tgtat	gtctac	aat				383

```
<210> 649
<211> 349
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(349)
<223> n = A,T,C or G
```

<400>	649						
cgattgtnta	cnagtcttag	agtaagctta	agntcgntac	cgagctcggga	tccactagtc		60
cagtggtgtg	ggaattccat	tgtgttggt	cactagtaaa	tggatttagc	tagacanagg		120
anatttacc	tattccattt	agcacagtga	gganaggcta	nacagctagg	atgcaataaa		180
aaaaatttta	atgagaaatg	tgtgtggtag	attaattcta	ttaatctcaa	gttatagatt		240
aaaaaattta	agtaccncat	aaatgccatt	tgcctttgct	aangntacat	ttttatgaan		300
aangaccntg	catacnaat	ganatactgg	actttnggna	cttgangga			349

```
<210> 650
<211> 306
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(306)  
<223> n = A,T,C or G
```

<400> 650  
cattgtgttg ggagcatcct tccatcagct cccatgagaa attctctgtt gggtttaagc 60

```
<210> 651
<211> 769
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G
```

```
<210> 652
<211> 267
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G
```

```
<210> 653
<211> 501
<212> DNA
<213> Homo sapien
```

<220>

<221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 653  
 cccnttnacc cattgctgga ctccaccgcg gtggcgcccg ctctanaact agtgggatcc 60  
 ttncnatgag atgngcgang gaggacnnat ttgctatnct ggatggggct gantcntnta 120  
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180  
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240  
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300  
 ggacntatca ccntanaggt acanntnccg caccacacac cngcttgenn cctgacgctg 360  
 gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac 420  
 tcganggggg gcccgtanc caattcgccc taatactgag ccttgntacg nacgctnact 480  
 ngngtccta ttanaacgtt g 501

<210> 654  
 <211> 710  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(710)  
 <223> n = A,T,C or G

<400> 654  
 gcgnctttan cncatgctgg gctccacgcg gtggcgcccg ctctacacta gtggatccca 60  
 aactgagtc caccacagna aaactcanca ccaggcagac cccacaactg cagaatccag 120  
 gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180  
 caaggnttta ggtttgctg gtanactcaa tctctatctt tcaccactgc cagcctgact 240  
 tcagagatcc tngnctctgg acagtectca gtggcaggca actctcagga gcctcaggnt 300  
 tttggcacat cccagnacca gccagctgcc acaggccctg acctntanc aacactgcc 360  
 atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420  
 gtgcncctca aanctgtgcc tgctgcagna ngccccacgt ctctggcatg ccccaatgcc 480  
 atngtggnna acanttgact tctgggcatg ntgggaattcc ctaccactga ncctgacct 540  
 agngggganc ccattttttt cgaggggggg gcccggcccc caattccncc ntatagngag 600  
 ncgtanttac gcgcnctta ctnggcngt ngtttaacaa cgctcnntgan ctggggaaaa 660  
 cccctggngg cnacccaa taaacngcnt tgcannacat ccccttttcg 710

<210> 655  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(202)  
 <223> n = A,T,C or G

<400> 655  
 ccccttttnc ctttcanc ccccgttttg gcngccgcn acacctactn catccacca 60  
 cantogacca cccgagcttt tttccgatcc cancatcnat gcngattttt tctntgcntg 120  
 ctnggcctgc acctttgnta ggtcaagcct ggcccatctt cgacaacttc ctcatcacca 180  
 acgatgagga atactctgac ga 202

<210> 656  
 <211> 308  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(308)  
 <223> n = A,T,C or G

<400> 656	
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg	60
tggtggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc	120
ccattcatgg aggcctgggn anttctgtga ntgacntnga cncatanacnc tnccactgtn	180
tgctatccag acttgnttng aatatnttat tggcnaaana canttncgga atgctgtgnt	240
tgnncattga angatctgat cactatgaga ggggtaggac nncctgctng ctggcantnt	300
ntaaccn	308

<210> 657  
 <211> 696  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(696)  
 <223> n = A,T,C or G

<400> 657	
accntttcca caatnctggn ctccccgcgg tggcgggccgc gtcgaccage aacctcagct	60
gtgggtcttg ttacagtaat gagttactgt aaggaaagtg tgacatttcg agcaatttga	120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc	180
aatgttcttt cttgaggagt agagaaagga attgttagga atgatgcata aacctatggct	240
tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga	300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt taggggtctag	360
agggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg	420
gtgngaaagc gaatcttggg ntcaaaanaa caatggnaag gggtaagttg gtatnctgaa	480
ctggccactt cggactotta ttttaactggg tattctcant taaggaggcn nggggtggtct	540
tggcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa	600
angntataaa tcttggtgtc taanaangaa gcctgggttc tnttanccca ttttnccccc	660
gggaaggnaa atnttcttag gnaanggaag ggaagg	696

<210> 658  
 <211> 698  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(698)  
 <223> n = A,T,C or G

<400> 658

```

ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc      60
aaggctgttg ctgtgcgggc tgttccccac acgtgctgct cagctcaggc aagcaccgag      120
cttgtgttgt ttcattgctca gcgtggaggc cctcctcca ggctgctgct ctgtgggggt      180
cccatacact caggctccta ggaggagtc atttagaaag ccagggtttt tctcagagtc      240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc      300
aagagaaaaa acagggaaaa taagagaggg accttgaca cacacgctct ggaccacaga      360
gccctgtgcc cagctcctct gtcaatacac gtggaatctc gtgcaggatc gcagggggtct      420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg      480
gtttctccta cgcactctta ttgcagagg gaaaggcggg tttgtattgg gggtgtcggt      540
ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacatata      600
gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg      660
gnaagttttn aatttncttc cccnaccan cttgtctc      698

```

&lt;210&gt; 659

&lt;211&gt; 750

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(750)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 659

```

ncaanctggn ctccaccgcg gtggcgggccg ctctagacta gtggatcctc ctcatggggc      60
tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt      120
gaggcctaag aatgntatth tcttttagtg atggtctttg tttgcttctg taaggnaactt      180
gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc      240
ccatagatga attaaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt      300
aagtcttttg gggctccaaag tcaaaaagat gagggattta ccagttctct aaccttggt      360
gcccagact ccaaactttg cttctagtc ccaagaggct atcaaaaagc aaaggccatc      420
ttatcccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc      480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc      540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggtacatt      600
cagcttggcc ccctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt      660
tttntggcc cctgactttc nnttttttag gctttccccc angetttgcc cctttggtta      720
aagggttat tttccttccc cttttggaag      750

```

&lt;210&gt; 660

&lt;211&gt; 849

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(849)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 660

```

tcggatccac tagtccagtg tgggtggaatt cgcgcccgcg gtcgacgggc agtagtggt      60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcatata      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180
ttaatttaat tttgattata tttgggtttt agttcaggta atttttttgt tgaaaacttc      240
aatgacaat ttcttcatgg ttactaaaga tcaactcatgt ggagtagttt cagatttttt      300

```



tctgaataca	tgtattactt	ttagagatgt	aaagatgtga	aattactaag	agagaaaccc	360
atgtgatttg	tttagtggtg	caaaagtcgg	tagctccttt	gacctaagt	gccactgata	420
gttaaataga	tactgaagct	atgggcaggc	tggattgata	agaaaaaagg	agacagagaa	480
atgggaaatt	gggaaagaac	tgtgcaaata	ggaaaaggag	agagcaacag	aacagaatta	540
gtaccacagt	gccgaagtgc	cacctcaggt	acttccatct	cccattctct	gaagaattca	600
gtaacagttt	gcaaattggtc	aacacaatca	tttagtgatc	ctgggttgata	ttttcaatac	660
tttctgggga	tttcttggtc	ggnttcaaaa	gatgatgctg	atagttttat	tgcccctgaa	720
ggtattctga	agnttancat	aattttattgg	tcagtaaaat	atttgaataa	aagngganga	780
aggaaaatct	ggcntcttat	tttgggatnt	cngcnggggg	aangaggata	taattnacc	840
cggccttgg						849

&lt;210&gt; 661

&lt;211&gt; 653

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(653)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 661

aaacttaagct	tgggtaccgag	ctcggatccc	tagtccagtg	tgggtggaatt	cgcggccgcg	60
tcgacctcca	ttcgtttctt	gtcctttttt	ttcatttttt	ctcatgttct	attcacttta	120
ggttttctaag	ataaatatta	taaaataatt	tttacttata	aattattcac	tgataccctg	180
tctttaacat	gtgaaatgaa	ttcaaaaagg	atcttaatat	gaaataatat	actcatgatg	240
tttaatatag	ttgatttcga	aataataagc	cctctgaagt	cctaagttaa	aaataaagca	300
acttgtttga	taatttttca	tcaagaatgt	atctgagtc	ctgagtaatt	attagtagga	360
atattccatt	atcacaatta	cacagtataa	gctatttagt	ctaactttac	caaaaaaggg	420
agctacttca	acactgtgtg	agacttttaa	tgggtttgca	ttgggtatgc	actattagca	480
agataaccta	ttttacagca	gtgttnttta	acctttccca	tttatttgaa	aggcagctaa	540
gatatagtag	ttaatntaan	gggctgatgc	atttatatta	catgtagana	atgggagata	600
cnaaaggag	nggggggana	tnttttgnat	tcnnaagctt	onttgncaat	taa	653

&lt;210&gt; 662

&lt;211&gt; 646

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(646)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 662

aaacttaagc	ttgggtaccg	agctcggatc	cctagtcag	tgtgggtgga	ttcgcggccg	60
cgctgaccca	gggacaggca	gccagngctg	gggtcaccag	gggtccctct	tgggcccctc	120
aanagcaaca	gtactggcaa	cagctgggat	ttgctgagca	cagactctgc	agcaggctcg	180
gttgagctct	ctgtgcctgt	tccttcatac	catcctcacg	cccatccatg	agatgggtcc	240
agctgttttc	agatgagaaa	atggcacagg	aagctggtaa	gtgacagtca	gaaatgaatg	300
ctggcagctt	antccttgga	cccaccgcag	tgcaggacct	tgtcaacag	ggatcacctt	360
tgtccgccac	ctgttcatga	ggccaccacg	ggtttgtgtg	gtcatttgtc	tcctttcatc	420
tgtttgcctt	caaccagctg	ggtcattagg	gctggggaac	ccagacccca	cacagtccct	480
ctcccagang	ccagacacan	nctncgccac	agnaaggact	tcagtccccg	aancaaatgt	540

```
<210> 663
<211> 650
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(650)  
<223> n = A,T,C or G
```

<400>	663						
aacttaagct	tggtagccga	gctcggatcc	ctagtcagct	gtgggtggaat	tgcgggccgc		60
gtcgacgtcg	acgcggcgng	ccgtttcgac	gcagttgata	catattatta	tatactacat		120
nggtttttcta	gaattaaaaa	attaatgtgt	agtgccagcc	ctagatgtaa	gttacatata		180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta		240
acaatgtgag	aaatgtagat	cattgcaatt	ataccacaaa	ggcagatggc	tacatgcaga		300
atggatagca	gaatctagct	acttacgcta	gccacatggg	agacgttttt	tcctttgttt		360
ttgcaaaatt	gcaatataag	ttgcatatcg	ttagagttaa	aagatgtaaa	gaaccatag		420
aagccagtg	tgaaggacat	ttatatcttc	acctttacaa	angaccttaa	aattgcctat		480
gtggagcaga	aactgtgagg	gggcnaanc	atcngtaaaa	aaaattttgn	tnctatttgg		540
atttgggcac	cattattacc	tcccaggtn	cttttttgn	ttaacctttc	ttttaaaaaa		600
aataattcnt	aattttttgg	caaaaaaaaa	caaggttttt	atttaaattt			650

```
<210> 664
<211> 678
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(678)  
<223> n = A,T,C or G
```

<400> 664							
taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	gggggtgtagt		60
actcatcana	gctaaatgag	agcgctttta	aaatgttagt	ttgtcttccg	ccattttctac		120
agaaagctgc	aatttcaggt	tttcaaccta	ataggtgata	tttaagaaaa	aaaaaaaagca		180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggtta	tagcctgtca		240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc		300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa		360
agcaaaaacta	ggcacgattg	aaatcaanat	cttttaggca	agaaagtcac	gatgagtttt		420
anaattatatt	taggactctg	tggtttttct	ttcatagaaa	tagaaaaaaa	aaattgtata		480
aaaaccacaa	aaggtcctga	atagcccaaa	gcaacactga	acaaaangaa	caaacgagga		540
atgcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaaa	acagcattct		600
attgggcata	aaatagacca	aagaccagtg	ggaaacagaa	taaagaancc	caaaaataaat		660
cctatatatta	cnqcccn						678

```
<210> 665
<211> 694
<212> DNA
<213> Homo sapien
```

<220>  
 <221> misc\_feature  
 <222> (1)...(694)  
 <223> n = A,T,C or G

<400> 665  
 cttttcaaatt cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60  
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120  
 cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaaacta ggcacgattg 180  
 aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240  
 tggcttttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaaa ggtcctgaat 300  
 agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca 360  
 aattatacta ccagggtgta gtaacccaaa cagcattcta ttggcataaa atagacacca 420  
 agaccaatgg ancagaataa agaaccccac aaataaatcc atatatntac cgccanctga 480  
 ttatcaataa cnaacaccaa gaacatatnt taagggaacnt nctattcaat aantagtgt 540  
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat ccctcaccat 600  
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660  
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 666  
 <211> 705  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(705)  
 <223> n = A,T,C or G

<400> 666  
 tttaaaaaatt tagatacact angaaaatta ttttagtattc agaagaatat caggggggtgt 60  
 agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc 120  
 tacagaaagc tgcaatttca ggttttcaac ctaatagggtg atattttaaga aaaaaaaaaa 180  
 gcaatogcaa atagccccac tgcttttaca aatcattttt tctcttctag gtatagcctg 240  
 tcagggtggcc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt 300  
 gccagagata tgcttgcaat aatcttaagt ggggatttat gtattttctca agcaagtgat 360  
 taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgagt 420  
 tttanaatta ttttaggact ctgtggcttt ctcttcacatg aaatagaaaa aaaaattgta 480  
 taaaaccaca aaaggctctg aatagcccaa gcaacactga acaaaaagaa caaagcagga 540  
 agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc 600  
 tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaaccca aaataaatcc 660  
 atatttttac agccagctna ttatcaataa aaacnccaag aacnt 705

<210> 667  
 <211> 817  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

<400> 667  
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60  
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120  
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180  
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240  
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300  
 gtggggctat ttgogattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360  
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgccttc 420  
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480  
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540  
 tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt 600  
 agcagggcg ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660  
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720  
 ttggggtggg ggatccctcg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780  
 aggtcgtcc tgcatttana ctcggaattt tgggtgcc 817

<210> 668

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 668  
 cggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60  
 taccattcga gtccctaact ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120  
 gaacaatgcg aaagcgtttt cttccctagg ctgcagattg tcttcttcac cgccctgct 180  
 tagctageta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240  
 ctcgttttga gttacaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300  
 tagggaaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna 360  
 atgagagcgc tttaaaaatg ttagtttgtc ttccgccatt tctacagaaa gctgcaattt 420  
 caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccaact 480  
 gctttttacaa atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt 540  
 gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600  
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660  
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720  
 cttctcttct taaaatngaa aaaaaaattg tttaaacca naaggtctga ataccaagc 780  
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669

<211> 547

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 669

cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt 60

```
<210> 670
<211> 232
<212> DNA
<213> Homo sapien
```

[illegible]

```
<210> 671
<211> 214
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(214)  
<223> n = A,T,C or G
```

<400>	671						
ctcccccttc	ntccttcgct	actncncatt	ttcnnaaatt	tntttcgcnt	atgnggaaaa		60
acacccacat	tnttcanctc	gcacagaaca	ngnnggggtg	tgtaaaatga	agggcttccn		120
cnccttctct	tattnaanaa	cactnaaana	gggangugct	aaaacccgcg	ngatntctac		180
ncatatcgcg	gcgccttttg	ngttggctag	aaga				214

```
<210> 672
<211> 328
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G
```

<400> 672  
ngancagcgg ngtttaaacg ggccctctaga ctcgaggaga cncctgttgg atggtggatc 60

acanntcgnt	actactatac	aggacagagt	atcggganct	cttggnctgtt	ggngcctgcc	120
aaccactgct	nctgttaact	gcgtatctga	agggactcgg	actggcttca	gaagaactac	180
cggctcgaat	gnaccatgga	tgattcncnc	tagttgaaaa	aaaactcagg	cacatgtatt	240
gccactgatg	actagcgcca	gactnctctc	ggctctntaa	cgagcccaca	tgncngtgtg	300
ncncccgtag	tgntccaga	agaggttc				328

&lt;210&gt; 673

&lt;211&gt; 223

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(223)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 673

gggggcaaag	ctggctagcg	tttaaactta	agcttggtac	cgagctcgga	tcccnagac	60
attgtgcatg	aaaatgcaaa	ttgagtgtgg	tctatantgc	catcttcacc	tnctgnctgc	120
tcaaaacaac	ngctttctgc	tgcaatgggt	agggctcctn	acncacgggc	gennacggag	180
gccnncttat	cctctcgggt	nnggatccct	ngaagcatnt	tct		223

&lt;210&gt; 674

&lt;211&gt; 256

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(256)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 674

gnggggtctn	ngatgagcgc	gcgtaatacn	atcactntcn	ggcgnngtgg	gtaccggggcc	60
ccccctcnaa	gcggccgccc	ttttttnttt	ttttttcatn	acatgataan	ntctttnttc	120
taaacagacc	acaccactan	agttcctttt	ctttngtacg	gaattgagtt	aaagtagagn	180
atacaatgca	gggcttcnnc	tctatttcac	attccaggnt	ggttcngnat	ggatcgggcc	240
tgctctccg	atgggt					256

&lt;210&gt; 675

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(439)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 675

nnactagtcc	agtgtgggtg	aattccattg	tggtgggctt	gtatgggttt	ttttgtctag	60
ttntttggga	aatgttngtg	ttactatntt	ttggatatna	tatatgatat	gtatggccct	120
tctatgggct	cctcanacng	aactcaacca	ttttccacaa	aaccnattcc	tcctttccct	180
tcatgactga	gtgggtgttg	tactatccng	gaaactggga	cattgtcctt	cacatctntc	240

ccttanctgc	ctngtccnat	tgatgtcttt	gagctntgan	atgtctttgt	taactntctc	300
ctnctctgt	actgccggca	naattaagca	ccatntgtca	caaaaagtat	tgcgttacct	360
tcacgnatct	gttngttncc	atncttgctg	cttctccngn	ggaaaatagg	ctnttctggc	420
aaccgaacng	aanaaatac					439

&lt;210&gt; 676

&lt;211&gt; 587

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(587)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 676

ngngggcctn	attaagcgcg	cgtaatacna	ctcactntgg	ggcgaattgg	gtaccgggnc	60
cccctcaagt	tnatntgccn	aacctctctt	ttggaataac	aaaaggttta	acacatatgt	120
cctcataggg	acgcgctttc	acacnttcct	gacngcttca	tanaentcat	tnctatttct	180
cctcagnaca	agttnaggcn	gaaggtgagg	canacnttat	aatttccatt	tcacaaatnc	240
ggaaagtgag	gctcaaaggg	nttaaaaaat	aacctgatac	aantcataga	gccggtntct	300
ggaanaagca	ggagcaaagt	ccaggcatcc	tgatccaagc	tnnggtccact	gccttccact	360
ctggagaggg	ttcatctccg	acaaaggaag	ggacntgagt	ggctgganaa	tctcatggga	420
taaagacctc	agnatttcat	gctcctggaa	atcccatggg	ttgaacaaca	ggtnnttggc	480
cogtggttct	ntccctttgn	ccatctttta	accttggggg	aaatgatggc	ntctntnagc	540
nttttttttn	aaagagatng	aaattgaatg	attattnngct	cattggg		587

&lt;210&gt; 677

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(444)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 677

gtggggcatn	attaagcgcg	cgtaatacga	ctcactatag	gggcgaantg	ggtaccgggc	60
ccccctcgaa	gcggccgccc	tttttttttt	tttttactgt	ccaaactntc	tatngatnta	120
gttgaaactgt	ncaacgattt	catgaaattc	tatacacana	gccttcagg	ccagagagta	180
aaacaaattt	aaatttnttc	accanattgn	agcagncana	agcatccnat	nataccgac	240
tacaatgaat	nataatgctna	nggtanctna	tttaccact	ntggggtctt	tanggtctgt	300
cacaaactat	tttcgtaaac	atcnntttta	anttnngtga	atggacctaa	tnccagataa	360
ntctatttna	tntaccctag	catnctgtg	gctnactttn	cgggctgtgt	tggentactt	420
ttaggagaaa	attggtataa	atnn				444

&lt;210&gt; 678

&lt;211&gt; 670

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(670)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 678

actagtccag	tgtggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aatatacnac	tcttgatnaa	acataaaggt	acagtgggtct	atgaggaana	gaaaaggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tccnnanaaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggt	ctggaagggt	tttcagattg	cttaaganac	300
gcngcccttc	catattcntc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaagcgtcc	cttcccntcc	gaacgctttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttncntngct	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tgttggtttg	caaatgcngg	aatttgttta	ctttcntcat	gtcctgtggt	gnncnaaccg	540
gctccttgt	tgctccctt	tngaaagggt	ttcatcaggc	cccgcccttt	ctctntaan	600
ngtcctaate	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgcccnt	660
ccgtccggct						670

&lt;210&gt; 679

&lt;211&gt; 449

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(449)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aagancttan	caacnttcat	gatccccccc	tcntannoct	tttcctcanc	120
tgcttcctag	tcctgtttgt	cctnttcccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tcggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
netccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgatc	300
cctcccntac	ctcccnnncc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttaccoccn	gaacncagcg	420
aacngcnaca	ccttggaant	caagaanta				449

&lt;210&gt; 680

&lt;211&gt; 670

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(670)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 680

tttcngtgtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tccactgtct	ngcaactatt	taagtgttgc	antcccttga	aaacaggtag	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcactcctca	acctcaactc	cctgtgcaag	360



```
<210> 681
<211> 494
<212> DNA
<213> Homo sapien
```

[illegible]

```
<220>  
<221> misc_feature  
<222> (1)...(263)  
<223> n = A,T,C or G
```

```
<210> 683
<211> 255
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(255)  
<223> n = A,T,C or G
```

<400> 683  
 cttgcccggc atgcacagac ntnttttacgg acacnctact ccaagngagc ctgnanctgt 60  
 ctacgggtcaa nctctaaggt tngncantgc cacanatggc atagtcccga gggcggtnan 120  
 tctggantgc tctctgcaact tgaacntaaa ggcgntttca aganaggnt aatngcctgc 180  
 ctcttgacaa cnaacaancc cacacnacc tangaccctn tangcaagga ctggattctg 240  
 naaatgcaat acaca 255

<210> 684  
 <211> 922  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(922)  
 <223> n = A,T,C or G

<400> 684  
 acccttcatt tcatgtgctt ctattttcct acatctttta catgactaag ggattaatga 60  
 aatcacctct tcataatcat gaccataatt tcatccaaca agtactcaag tttgggtgta 120  
 gcactttatt aatgcttacg aattctctct ctctccctct ttctcttttc cttagtcctt 180  
 gcacaataag gatttttgaa tgtataatat catcttaggt aagctttcat atggttttgg 240  
 catatgaagc ttatgactgt cataagccat accaagcctg tggagtatgg catgattttc 300  
 attacataat ccaatgaaaa tagacttatt ttaaaccctt aactttgtag ttttaatttg 360  
 tattttacta tcttgaaatt aacagctagt acttatccat cacagcagtc tcctactgac 420  
 atgaagcaag ttgttgaatg cagtaganca tgaatgaaag catttaatgt tanacaaaaa 480  
 tgggtgatac ccaagcattc tgaattattt gcatcaagga atgggacatg tacattagtg 540  
 gcatcatttc taccaatatg tgacttgaat tgttttttta aaaaaaggan aatgantttc 600  
 tcaatttgct ttaaaaaatt ttnaaaaaagt tcaatggcat gotgctttgt ctggacttaa 660  
 tttattaaca attnttaanc cttccttaag gacanaattt tgggtgttcag gatcncctg 720  
 aagggtctta tttttnatan nattccaaac ccaaaggtg gtttaaaatg gnggggttcc 780  
 ccccncaaaa atttgaccg gcttttttat atttaaaaaa nttncnttt gngtttgaaa 840  
 nctnaatacc aattaagggg gaattttacc tnccagtggg aaaaaaaaac nctngcctt 900  
 naaaaaattc ccnggagnca at 922

<210> 685  
 <211> 531  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(531)  
 <223> n = A,T,C or G

<400> 685  
 tgaggctctg taaaactggt cctctgctag gcatacttca tattctctat attaaactca 60  
 tctttaattg gcatggaaga ttcattgttc caaatctcag atgaagatcc tatattggat 120  
 gcaattaagc ctggcagcgc cctcaaaaaga cagtcttgct actgctagcc acagccagga 180  
 cacagtaaca gttccttcta gtgaccnag accataanaa atananatct aaagaattct 240  
 gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaag 300  
 ctctggggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360  
 agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatong 420

attacacatg tttactacaa gagatgttna taagtaaaga aggcctgata tacaatctaa 480  
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

<210> 686  
<211> 336  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(336)  
<223> n = A,T,C or G

<400> 686  
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60  
tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa 120  
agctctnatc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat 180  
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240  
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaat catgcaanac 300  
ctagggctta tttgagagca tttccagtg cagatt 336

<210> 687  
<211> 271  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(271)  
<223> n = A,T,C or G

<400> 687  
aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcattgaatt ggggttttcag 60  
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120  
atctaggatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180  
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240  
tctctgagaa gaggacatag cttgtagtgt t 271

<210> 688  
<211> 740  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(740)  
<223> n = A,T,C or G

<400> 688  
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct 60  
cgaagcggcc gccctttttt tntttttttg tgagagtta aataaaatat ttgagtttaa 120  
tttaaagttt gagtttaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga 180  
acacttctca ggaactgtta gttggtgtac caggaactca gaagggtcct gttattaaat 240  
atatttgga aatgcatgga ttctctgaan atcnctctgc atgtgagcaa cacttacatc 300

```

ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctggttatgg      360
cccccccctt ttgtgtanta cttattgctg ttttttggaa ccctggggaa attacttaaa      420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactccca      480
aaattgcaag tgttgattac tatttaagaa cccaagaatt tgaaagaaat tttgaaaagt      540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctcnngnaaa catctccact      600
ttggtncctt tcctttaaaa attggctaaa aatntttnt tatncccacc ccattggaan      660
tncccccccc ctggaacaat tggattcccc tatttcctaa aaaacggccn ccccccccg      720
ggngaacncc nacnttttgn                                     740

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```

<210> 689
<211> 635
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n = A,T,C or G

```

```

<400> 689
actagtccag tgtggtggaa ttccattgtg ttgggattac atatactttt agcaattttt      60
aaagaagtgt acaaagttda gatgtttcct gagctctcat atatctgana atgtcatttt      120
acatctccgt cttcacctct caaaacttct ttcaattctt tggctcttaa tagtaatcaa      180
cacttgcaat ctggagtcac tgtaattctt gtccttttac agctacnctt gttatttcca      240
gctgaatatt tttagttatt tcccaggggt ccaaaaaaca gcaataagta ctacacaaag      300
ggggtggggc ataaccagaa atgtttggga aatactggct catgtatgca atgccaaatc      360
tggtttgcna ttgtantggt gctcacatgc agagtgaatc ttcaaanaat ccatgcattt      420
tccaaatata tttaataaca gggaaccttc tganttcctg gntacaccaa ctaacagttc      480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac      540
tcaaacttta aattaaactn caattatttt attttaaact cctcaaaaaa aaaaaaaaaa      600
aggggggggc cttccaangg ggggnccggt tcccc                                     635

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<210> 690
<211> 3923
<212> DNA
<213> Homo sapien

```

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<400> 690
acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt      60
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gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta      180
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&lt;210&gt; 691

&lt;211&gt; 882

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(882)

<223> n = A,T,C or G

<400> 691

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<210> 692

<211> 235

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 692

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<210> 693

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 693

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 <212> DNA  
 <213> Homo sapien

<400> 694						
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 <211> 670  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <222> (1)...(670)  
 <223> n = A,T,C or G

<400> 695						
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 <211> 317  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(317)  
 <223> n = A,T,C or G

<400> 696						
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&lt;210&gt; 697

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(246)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 697

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&lt;210&gt; 698

&lt;211&gt; 3674

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 698

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&lt;210&gt; 699

&lt;211&gt; 2051

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(2051)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 699

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<213> Homo sapien

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<223> n = A,T,C or G

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<213> Homo sapien

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<400> 701

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&lt;213&gt; Homo sapiens

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&lt;400&gt; 708

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Leu	Thr	Leu	Ile	Phe	Leu	Thr	Cys	Val	Ala	Ala	Thr	Leu	Leu	Val	Ala				
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Glu	Glu	Ala	Ala	Leu	Gly	Pro	Thr	Glu	Pro	Ala	Glu	Gly	Leu	Ser	Ala				
			195				200						205						
Pro	Ser	Leu	Ser	Pro	His	Cys	Cys	Pro	Cys	Arg	Ala	Arg	Leu	Ala	Phe				
			210				215						220						
Arg	Asn	Leu	Gly	Ala	Leu	Leu	Pro	Arg	Leu	His	Gln	Leu	Cys	Cys	Arg				
			225				230						235	240					
Met	Pro	Arg	Thr	Leu	Arg	Arg	Leu	Phe	Val	Ala	Glu	Leu	Cys	Ser	Trp				
			245				250						255						
Met	Ala	Leu	Met	Thr	Phe	Thr	Leu	Phe	Tyr	Thr	Asp	Phe	Val	Gly	Glu				
			260				265						270						
Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg				
			275				280						285						
Arg	His	Tyr	Asp	Glu	Gly	Lys	Ala	Leu	Ala	Ala	Ser	Arg	Gly	Trp	Cys				
			290				295						300						
Gly	Ser	Arg	Pro	Pro	Glu	Thr	Thr	Leu	Gly	Ala	Val	Ser	Gly	Leu	Val				
			305				310						315	320					
Pro	Leu	His	Pro	Gly	Pro	Asp	Phe	Ser	Val	Arg	Lys	Val	Gly	Met	Asp				
			325				330						335						
Pro	Ile	Cys	Ile	His	Gly	Phe	Ser	Trp	Val	Trp	Asn	Ile	Ser	Ala	Cys				
			340				345						350						
Gly	Phe	Arg	Lys	Ala	Ser	Gly	Cys	Ser	Arg	Ser	Leu	Ile	Arg	Val	Val				
			355				360						365						
Ala	Pro	Val																	

370

<210> 709  
 <211> 141  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(141)  
 <223> n=A,T,C or G

<400> 709  
 tacggcgtgg tgcggagggc ggtacccac aaataacacn nacaccccat cctatctgtg 60  
 tccacanata aantgactca ttcctctcct cgcatanccc actntcccct ngcgataccg 120  
 taacnaancc ctccccctt t 141

<210> 710  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(196)  
 <223> n=A,T,C or G

<400> 710  
 cnatccttcn cntacaccca tgangtccat gtcgcacgtc cacctcccct caaaacttgg 60  
 gtcncatcc acccgtaact ctcccctaa ncnataaccc cttttngcga atagacocca 120  
 ccttancaat nggtttttcn tttttgtcc ctnggnccgn gcgattcaan aaattgaagg 180  
 cccanaaaaa ccccct 196

<210> 711  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(177)  
 <223> n=A,T,C or G

<400> 711  
 ntacntcnct ccnaatgaaa ttcgaanctc gggtaccgg gggnattccg attaggngcg 60  
 tantctcgga tgtgcagtca caagtctttt gctaattcct ataattntcn ctaccctttc 120  
 ttcnacaata ctgctatcct anttnttctn tcncctctct cccannttac taaccac 177

<210> 712  
 <211> 185  
 <212> DNA  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(185)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 712

```

aaacgnacca nngccaacga tangtggttg ngttgggtgc ggttggtcct cttatntgca 60
ctggttggtcc gtgtcgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120
acgttttagtc gactntnccg ggcggccgct ctacccntnt atngattctt attaaaantc 180
ggatc                                         185

```

&lt;210&gt; 713

&lt;211&gt; 172

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(172)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 713

```

nntgggtcgcc tgnngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60
cactacacgg cncctcncgg agccnnggtc agtgcctnct nggagacott ctctggggca 120
ggangagcac tnggtatgtt cacgtatcnc ttcntaaana tacnnccctc cg          172

```

&lt;210&gt; 714

&lt;211&gt; 112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(714)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 714

```

nttgcggtgcc tggacgtnta ctctgcanga tctactactc atgngaattc taantacgga 60
ctcactatnc ggcancgcag gcgcagcagg gaanggttca cctcccagtc tc          112

```

&lt;210&gt; 715

&lt;211&gt; 326

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(326)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 715

```

tactctanag gatctncgng tcatntggat tctatntcga ctactctag ggctcnagcn 60
gtcngccggg caagttattc ggatcgtcgg gntccgagct tcgcaattaa ntgtgccatc 120
gttctncaac gttcctgact nggaancccc ngcngttcng atccnnggt acctagctcc 180

```

anntcccccg tntccttctt ggngtntcat naangaggac cncctcgat cnccttct 240  
 taatctgcnc acnctgaacg nccaatggac atngtgcgtt taatntanna ggcccgnttc 300  
 gngtgccctt cccgtnannt cagctc 326

<210> 716  
 <211> 122  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(122)  
 <223> n=A,T,C or G

<400> 716  
 nntgcgtcgc ctgngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60  
 ctcannatag ggctctagcg nggatncga ttcgtcntcc ngattcantg acnccgggtan 120  
 ca 122

<210> 717  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(203)  
 <223> n=A,T,C or G

<400> 717  
 cntgcatgcc tgcaggtcga ctctagagga tctactagtc atatggatcg agcggccgcc 60  
 cgggcagggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatgtt 120  
 ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180  
 atcantaccg ccctccgcac cac 203

<210> 718  
 <211> 168  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(168)  
 <223> n=A,T,C or G

<400> 718  
 ggcagganga tcncttgagc ccngagggtc gaggtacag tgagccanga gtgcactact 60  
 gtnncgcct ccgcatncac gngtgggtccg atccccgggt accganctng anttcactgg 120  
 anttcttttt aancgtnntg antggtacna ccctcgantc cctggctg 168

<210> 719  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens



anctqgaqtc ggcgcgtgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60

gnttcntcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120  
gcacnggtcc cctccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180  
agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240  
atcaag 246

<210> 723  
<211> 160  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(160)  
<223> n=A,T,C or G

<400> 723  
cctccggaat atccaantag agtaantnch ctctaaccg gggnaattgg nggggttnat 60  
acgtcctcct cccccagnt aggattnana aaaggntcc cagancaaaa nctccaaagt 120  
gnatcnanta gccgtncctg anancaacg cccctacgtc 160

<210> 724  
<211> 156  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(156)  
<223> n=A,T,C or G

<400> 724  
tnanccnata tacaccaaatt tctgattcta aantcccacc caagggaataa aagttgagaa 60  
gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120  
acctccttag gcccttgnnt ggaacaancg aaaatc 156

<210> 725  
<211> 347  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(347)  
<223> n=A,T,C or G

<400> 725  
aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtgg atccaaagaa 60  
ttcggcacga gagacggtgc gcgatggacc gagggcccca gccgngagg cgccgcgcc 120  
gagccgcgag ncagacgccc catcagtagc gtccgcaccg ggnagccgag gntctcgccc 180  
gagccgtggg cgcgcccagag gggcgggctc gcctcccgcg gtccctcgca gctctgccgg 240  
gcccgagccc gcgcgctcgc cgcgcgcgnc ttgcgctcgc gnccgcgcgg nccggnaaac 300  
gcggtcgagg tctggatgng gcanngcccg cncctntcgc tgagcct 347

<210> 726

<211> 162  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(162)  
 <223> n=A,T,C or G

<400> 726  
 ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaatact 60  
 tccccgcttt tnggtnccca aaganacnaa gggggagtc cttnatagag gnagngcgat 120  
 ncntcncaac nacntngact ttgnccatgg ggagnaagggt gg 162

<210> 727  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(120)  
 <223> n=A,T,C or G

<400> 727  
 gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttggtcca aagnacaggg 60  
 ggggtcncctt anagngnagg ggggttcctcc ccaccacttg ncttgnccat tgnagagnaag 120

<210> 728  
 <211> 130  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(130)  
 <223> n=A,T,C or G

<400> 728  
 gaccactgc agcgttnaac ttagcttgga ccgagctcgg atccctagtc cgtgtgggtgg 60  
 aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120  
 atattcgcat 130

<210> 729  
 <211> 182  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(182)  
 <223> n=A,T,C or G

<400> 729

```
<210> 730
<211> 678
<212> DNA
<213> Homo sapiens
```

<400>	730						
cactcncact	ccggacctag	gcnccttcacc	actgctctct	tctctctctc	cctcctctct		60
ctcggggctg	ggggaccttc	cccagtgacc	atctcacttt	ggctgaancc	cactcggggc		120
agcctgagtt	tggggctctt	ggcctttctca	ccctcctcgg	ccccctcctt	ggcccgccacc		180
aggccaaaacc	ggggcagccg	taccttgagc	ttgtgtccgg	cctctccctc	ccccctctgcc		240
acctggtact	cggcatgggt	gcccccgggga	tggcgagagc	tccacgtcgg	gcagtgagaa		300
gcagaaagta	cgctcggccc	ctggggggctg	ctctcagca	ccctcgcccc	ccaccttagc		360
tctggccccc	agtgtgggca	acttcagcct	cagcccaccc	tcgcctgttg	ccgcctcgcc		420
cgctgtgccc	tctcggtcta	gccccacgtc	caactcaagc	tggggcactg	tccaggtggg		480
catcttaaa	acaccctcac	gcaccagcag	ctcaccacct	gcaacctggg	ctccaggcaa		540
aaaaagggtc	acctggggca	nctgaaccct	gtacctgctg	tgccctctgc	tgaanggaat		600
gttatctgaa	cctgctgccc	tgggggtact	gccttcccaa	aaccgggtca	antccacctg		660
ttggaaggna	aatncccc						678

```
<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G
```

```
<210> 732
<211> 660
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(660)
<223> n=A,T,C or G
```

nagtntctatt	tncactaaac	tgngagtgcc	ttggatggct	ttcaggatgt	cctgaatcct	60
ctataattgt	atacaaaatc	gtgagttttt	aaaaactggg	ttagagctat	tggttcttca	120
gagctctcagg	catcttagac	ccccaaaaag	gttaaggact	actgacttaa	ccaattaggt	180
ttgagtggca	ttggctttga	agaaaagcag	aggaaagata	tattttataa	ttctgggcaa	240



<210> 738  
 <211> 137  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(137)  
 <223> n=A,T,C or G

<400> 738  
 ggagncnctt gancaggatg accgacttca ggctgtgcg ctcaatcgtg gagaatctcg 60  
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120  
 tctctctctc tctctct 137

<210> 739  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(970)  
 <223> n=A,T,C or G

<400> 739  
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60  
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120  
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180  
 tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcatgaga 240  
 catttttccct aactgagcat agccatgaac ctctcacgtc tgttcctctg tgtcagtttg 300  
 tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacaggctc tgacatgatg 360  
 aagtgacgtg ttgctatggt gattttgcag ctggccaaat agtcaactgg tgattttacc 420  
 cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaaactc ctattttgnt 480  
 tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attaactctg 540  
 aagagaaaat gggagaaaag tgaggaaggt tggtggcaga agtcattgct ggaatccttc 600  
 tgaaggaggat actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660  
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720  
 tacgcatatn ggattatgtg gtcattggatt tggtggcact aaccngcctn taatcagnat 780  
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840  
 aaaaatgntn gggggccttg ggtgggtggtc tnaaaanacc ccctggggat ntttaaacca 900  
 aaantgaaga agggaaaaat ntttcccnt nttttntttt tttgccccct tgggattggn 960  
 tttntttcc 970

<210> 740  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

&lt;400&gt; 740

```

gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccnccca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcagtagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactggtt gattttaccc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc

```

&lt;210&gt; 741

&lt;211&gt; 1171

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1171)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 741

```

gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcgggc gcgtcgacgg cccttnntgc cactagttct ttcattcttc cccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggattttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggtattaa tggagtactt tttaagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggaag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan tttnggcntt ggggaaaaat tccccntttt ccttggnaaa 660
aggggggnaa ggttaancct tgggaacctt tttccnncct tttnggccca aaaggggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaacctnt 780
ngggcccccg ggccctcctc caanaaggga aaaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgacca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggttttgg cnccttaacc cgcnttttaa attcaaanna aaaaaaagng 960
gttttgaaaa nnaaanaaaa aaaattnaan ggnccnnaaa aaaaaccctg gaaaaccttt 1020
ggaaaaaaat tngnnggggg gccttttggg tgggggggtt tnaaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaaagggg gggaggggna aaangtncc cttntttttt ttttnngccc 1140
cccttgggga atggnnttant tcanggggcc c

```

&lt;210&gt; 742

&lt;211&gt; 739

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



<220>  
 <221> misc\_feature  
 <222> (1)...(739)  
 <223> n=A,T,C or G

<400> 742  
 gntgtcnaaa aagcaggctg gtaccggctcc ggaattcgcg gccgcgtcga cggcccttgg 60  
 tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120  
 gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180  
 acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240  
 tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300  
 ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360  
 tggccaaata gtcactggtt gattttaccc agcaggagat ttttgcaaaa atttcctggg 420  
 tgagagtga atcaaactcc tattttgttt ctccctctgca agctgnagtt aanatggatt 480  
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540  
 gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600  
 aagagactan aagacaatga agttaactt ggctgtctn tcatatgata gatgcttgag 660  
 agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720  
 ctttgtttgg cncctaacc 739

<210> 743  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(610)  
 <223> n=A,T,C or G

<400> 743  
 ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60  
 taaatttttg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctggt 120  
 gtcaaattgc cctatatatg gagtaataaaa cagcatttaa agaaatgagg actaaaaaaa 180  
 gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240  
 ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaact 300  
 ctaggtagga taccggagggt ccacaaattt ttcataagaa atattttttc tctgccctat 360  
 gagattttta aaaatattat actgcttcaa ttgcatcaaa agaatggac cctaatatct 420  
 atgatgaagg atttgaggtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480  
 gctctngat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540  
 acagcaccac tattcacagg actattgncn gaattaccag acaatagcat agngaaaaat 600  
 ataangcctt 610

<210> 744  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(127)  
 <223> n=A,T,C or G

<400> 744

ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60  
gcacgaggga gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120  
gagagag 127

<210> 745  
<211> 458  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(458)  
<223> n=A,T,C or G

<400> 745  
gatatcccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60  
ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120  
acttctctggg ccttcgggtc tctgtgact ggggtggctc ctgtggccca gaatgccctg 180  
gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240  
tggaggctcc cagcacaggc cgcgcgccca gtcacatcac tgctgatggg ggggggactt 300  
ggggagtctt ccccgagaat gggagggtctc acagtccccg tgctgcaatg ctgtcgggtg 360  
actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420  
ccagcanngc acccctcttc tncctctccg anaaagcc 458

<210> 746  
<211> 893  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(893)  
<223> n=A,T,C or G

<400> 746  
aagcaggctg gtaccgggtc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60  
gaccccgctc tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120  
cannгааagt cctgccgact tcctggggaa gcccatccgc acgtgggggtg agggccccca 180  
natggaagca gctgtgtatg cagggagggg gcagaggctg ctgccaatgg gcatgtccct 240  
tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300  
ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacaggtgg 360  
ggaccaaggt ggccttggac aaaactctct gtgtttgcca agcaccat cggacacaga 420  
gagtcaacca caccacagtc acatggtgtc cacacngcag gggtaagga ggcccggccc 480  
ctccccctca gacgtccctg ggccctctgg agtcagcaag gacgaggacg gcattgccct 540  
tcgagacagg aagggagtga cctcctcccg gcggcatcca ggctcngctt ctccggagag 600  
gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aagggtgacca 660  
tgagcacctt gcaaacacag tgcacccacc agcatttnag caccngggac tgtgaagacc 720  
tccattttct tcggggggaa acnccgcccc ngttcccccc accntcacta gtgnattgtg 780  
acctgggggn cgggccgacc cctgtngctt gggnnagccc tccnccaggg tttctnnggc 840  
ngcccnttaa nggnccctng nttggccctt tggecnctt tncgcttttc cca 893

<210> 747  
<211> 738  
<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(738)

<223> n=A,T,C or G

<400> 747

```

gatatccccg gaattcgcg cgcgctcnac gaagcacaga cctgngccct gctctcatgg 60
ggcagactgc catttgatcat tnattactga aggaaaggga tcctcagttt gcttgtggac 120
atttcaaatt tgaggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240
aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagnac 300
agaagcanaa ggagggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
ttatgngtgc catgcagtc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
tanaaatttg gatacttact gatcctacat atgtaacagg gagagaagg gaatttcaaa 480
gcantaaatt gaaaaattgt tcacaatttc attttttaaa aaaagggagc taacagaaga 540
agagggttaat gtggttaatta taggatgnct cttgcgacac atgaatgnat ctggtatcat 600
ctgagtggga ggggagctgt ctctctgacc caaaaggatc ctttcgttan ccngnactta 660
ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
tttggncccc gcaaaagc                                     738

```

<210> 748

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 748

```

ctntgtggcg gtggctgtct catttgggtg gacttttttg gtcgtaggaa cctggtatng 60
aggctgagag taagacgggc tattagtagt cgcacgagag ttatttgtga aaacctggtt 120
agggcctctg tctccgctgc gctcgcctaa attggtatgg ctcgacttgg aaacacggtt 180
ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtcg ctccctccgg tategttcac ggaggcgata ttactcttc ttactacggt 300
tacttcgaga ttgtotgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaagg caatcggcgg aaatatagag gcaccaataa 420
tagggcctac agaaggccc aggggttagac tcacgtttta taccggccac gggagaaata 480
aaaagataaa gtatacatcg tttagcggtc ctcggaagcc ttcggcttta atgccaagga 540
gtcgggaagca tcgtcggcga gtaataaaact ccacgcgcc gagactatct acgacgccct 600
ccttaanatc cgtaaattac tcccggaaag agtatttagg cggctct 647

```

<210> 749

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(642)

<223> n=A,T,C or G

&lt;400&gt; 749

```

ctntgtggcg gtgngtgtct catttggtg gactttttgg gtcgtaggaa cctgggtatgc 60
aggtccgcgg agcgtgggct ctcgtcgtgg atgttggggg ttggtgtggt gccggttgtt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgttttaggg cgggtgggga ggttgttgtg tagctgttgt atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg tgggtgttac cccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttgttg ttacgttgct 360
gcttttgtcg tgggcggtgg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgcttg acttcccga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc cacgacccta aaattatata cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac cccatacacg 600
tcggaatagga aacaagagaa ctaattttng ttaaaaagac tt 642

```

&lt;210&gt; 750

&lt;211&gt; 639

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(639)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 750

```

tttgtggcgg tgggtgtctca tttgggtgga tttttgggtc gtaggtaacc tgggtatngag 60
gtatagatgc cgattggtcc cgacgagcgt cacgataaat tcggtagtgt cgcctttttt 120
agaaggcgct agtactcgga acttcacttc atctcggtag ttacttttgg cgtatatagc 180
ctttccctc gaagactagc cgtcacattc gttccctagg aatcgtttct gcccctaaga 240
atccgagagc gagatcccga aactagagga acctagaag agtcgtattt ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacgtt aggattcccc cggaaccggg 360
agcaaagctc atgatttccc acaccgcgag agcgcctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcataga cgggtgtccg 639

```

&lt;210&gt; 751

&lt;211&gt; 637

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(637)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 751

```

cttttgtggc ggnggtgtct catttggtg gatttttggg tcgtaggnaa cctgggtatng 60
aggcagctct gagccccccc ccccccccc cccccnccc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtngtct cattaaaagt agttgattac nccctaaaat 180
aanaanaggg ctctcgtcggg anaaatcggg aagganaagt cttnttggca tcataanaat 240
actggctcgg gtcctaanat nttaagng gtcnccgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctnccgngc ggngattnan 360

```

```
<210> 752
<211> 644
<212> DNA
<213> Homo sapiens
```

<400> 752						
tntgtggcgg	tggtgctcat	ttgggtggat	ttttgggtcg	taggaacctg	gtatgaggtc	60
ttgcgagttg	ttggtgtgtc	ctgtcgttcg	gtggttcctt	tttgagttga	gtttgtcctt	120
tgaggttggt	agctgctgtt	cgtttggtt	cggtagtg	tttgggtga	gagggttatg	180
gtggtggtta	cggtgtattg	tcgcccggtg	tcgcggggtt	ggggtggtcg	tcggttttgt	240
ggttcatagt	agtcttctgc	gttcggtggt	gcgggtttgg	gtgagtagtt	tcgttcttgg	300
atgtcccatt	gacccgccat	aatctaagta	agggttagta	gaaacctctc	ccgatagac	360
acaaccgtcg	tccactaaag	acctgcctc	tgatttttaa	aaggaccoga	aaaacatccc	420
ttcaacggaa	aaaacggaaa	aaaagtcagc	gaattcaaag	aagcacggg	agagaaaaaa	480
gaactaaagt	tagtccgtca	ttatatgtct	cctcgagga	ggaagcggcg	gtggcgaaa	540
atgagcggt	aagaaaagacg	acctctatcg	gcggcttang	ccctaaaagg	gcgatacctt	600
acgggatgat	aaggacccta	ggacgcctcc	ttctcggatc	gtcc		644

```
<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G
```

<210> 754  
<211> 721

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(721)  
<223> n=A,T,C or G

<400> 754  
accggattng ttncctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60  
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcnggggt ataaaatttg 120  
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180  
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240  
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300  
atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360  
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatatc caaagacaag 420  
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480  
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540  
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn ttccctttt 600  
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660  
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720  
a 721

<210> 755  
<211> 721  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(721)  
<223> n=A,T,C or G

<400> 755  
accggattng ttncctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60  
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcnggggt ataaaatttg 120  
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180  
ctcaagggaa gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240  
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300  
atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360  
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatatc caaagacaag 420  
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480  
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540  
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn ttccctttt 600  
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660  
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720  
a 721

<210> 756  
<211> 873  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1)...(873)  
 <223> n=A,T,C or G

<400> 756

```

ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
ggaaactgtc agcctgtctc tttcactttg ggcaagtgaag agcaaagacg tccagtccta 120
tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180
ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
atgccaatga gcactcatta taacccgccc tattttatag gatttaattt tacacttcag 300
gcttaatcag tctgaaagt aaactgacag tgtaagtta cggaatcaat gacatttagg 360
ctttatgact ttgtagctga atatctatgg gctatatatt cattctaaca gtgatatacct 420
gttcagaat ctacttcttt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
gagcaggagt tcctctcagg gaggacgctg acaactccac agctgcctan gtatgggcac 600
ctgatgccaa cgaanaaccc aaagcgctct ccctccaga tggaagctgc cccacactgg 660
gctgacagca tctggagctg ctctggctca aatcccgga tgcacacnct cctancgggg 720
gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnc taggagcgat 780
aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
atggcncccc caaataantt gggaaaantn ggg                                     873

```

<210> 757  
 <211> 782  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(782)  
 <223> n=A,T,C or G

<400> 757

```

ggccccctga gggatactct agagcgggcg ccgactagt agctcgtcga cgatatcccg 60
ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcagggtgcc catacctagg 180
gcagctgtgg aagtgtcagc gtcctccctg agaggaactc ctgctccggg ggctcctcag 240
tccttcogtc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
ctgntccctt aaaaggtggc cttcccnaag aaaggagaat tcttggacna gggatttcac 360
ttgnttagaa atgggaaaaa ttaccacatta gaattttcgn ttccaaggcn tnaagnccca 420
aaaggccttt gattcccga ccttaaccct gggcagttaa cctttcaaac gggataaacc 480
ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
aacctttact taaacnaacc cttgncccc ctttgggggt tgactttcan cctaattgct 660
gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720
cccangggat tanttcccga aaatttggnn aattttntt tgnaaacttt tgggtttttt 780
cc                                     782

```

<210> 758  
 <211> 647  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 758

```

ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggaagagcg ccgtcgggtcc gagtacagta tggagtagta tagtcttcgc gccttctcgg 120
gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgctc ccctagggtta 180
ggaacagccg tcgaatatatt taggttcgtc gaggttttct tccgagctct acgcctaagt 240
agctccgcga gcaaagtatc gggtcatttt ccctatccat cactccccta agtacgcctc 300
attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctccgt 360
cgcgtgccgc gaaagggcag agcttcgtgt ctccctccg cagcagctta acggtctacg 420
taggcgttct cgatcttttc acgggaatcg ggggtccggga gggcggcgga aaacgtcgac 480
gtctcgggtca ccgtcaccgc cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540
ccgcaccctt cattagcgtt tacgaaatcg gggangtgat tgcgcccaatt cgttagcctt 600
cgataattat tctctattag cggtcctatc tcgcgctttc gatttat 647

```

<210> 759

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(657)

<223> n=A,T,C or G

<400> 759

```

ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggctctata gaaagcctct tgtctttaga tacgggcttt ctggtccttc gttctggaag 120
tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
gcttattcta tagttccttc gggacataag gtccgtacga tctatactgc gtgggaagct 240
gatagggttg gacttaaggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300
atattattta cggcgccgcg ggggtaccgc ggcatgcgg aaattttctg aggttcttgg 360
attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420
accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480
cggtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540
ttgcgcgtacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaaggttt 600
attccgacgg gagacttagg cgaatggagg gttccgcggg tganaatcgg ancgggg 657

```

<210> 760

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(644)

<223> n=A,T,C or G

<400> 760

```

ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gttaaccccg agtagccccc gtaagaaagg actaaagcga atggaaaagt 180
cgggaattcc ggcggagggg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240

```



```

acttgaggcg ttccctctta aaaggcaccg gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaacggc ggccacttc 480
cgcactctcg tagcgcggac cgaatagaaa accggaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccacccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

```

<210> 761

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 761

```

ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
ggcgggtact ctctgggata atcgggtataa gtgttgtaaa attgggggta agagaaagtt 120
tcattataag aagtgggaagc acgagccggg gtgttttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtgggg aggcaataag aaacattgcy tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgccgcac tgcaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggctgcatt aagatttcgg cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcggt 420
ttcgggttgt aagaaggagg ttaagtcgat cttcgaggaa gaagagaccc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgtta aaactagtag 540
ctcttcggan gagtagcctt agtagggtaa gtcctccgtg cgtactgtcc taagggttgg 600
atagcgcggt tgaatagacg gtcacgcgtc agaaggtaaa aanccgg 647

```

<210> 762

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(628)

<223> n=A,T,C or G

<400> 762

```

cattgtgttg gggtcactga gccactttt ttccagattt tttgtaaaat tgtttcgcat 60
tgtgttccct ttattcgctt gtattaatat ttgcgtagt gattaaacaa atacttggtg 120
ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaag tcatttttca gttaggttgg tgttttggtt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgccgg gttaaatgaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
cattctaact tggaacttgc ccatttccag gactttgngg ttcanagatt tttggggata 600
gatgtaaggg ttaaaaaaaa cngaaaac 628

```

<210> 763  
 <211> 147  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(147)  
 <223> n=A,T,C or G

<400> 763  
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 ttttttttat gcacaccacc ttcnggc 147

<210> 764  
 <211> 146  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(146)  
 <223> n=A,T,C or G

<400> 764  
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 agagttaggg ggactgttag aacagagaaa ganatcatgg ggttgggttt gagtctgatg 120  
 nnnnaactggt gccgnntgct cagtat 146

<210> 765  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(129)  
 <223> n=A,T,C or G

<400> 765  
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 ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcggctg 120  
 nagaggcgg 129

<210> 766  
 <211> 175  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(175)  
 <223> n=A,T,C or G

<400> 766  
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tctggggctt ggnnttttctc ctttgtanaa tgatgccttt ctgtgggttt gtcatttcta 120  
acattctgtg ngtgatgagg tgttatattcg anganctota tcnccanagt actct 175

<210> 767  
<211> 602  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(602)  
<223> n=A,T,C or G

<400> 767  
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cctggtttgt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120  
ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180  
aatgagttag agtacaaagt tcaagccctg ttgagggtct gcattaaact ctcagaagta 240  
tttagagtgt gccaggagcc gcgaagggtc gggtcgggtg gtggcgggaa ctgtattaga 300  
gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cgttgggtgt 360  
gagctccagt actcagaaaa gcctctcagc aggtactcaa cagatcctca ggggcttggg 420  
ggccagcac tggcagtgag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480  
ctgtttctcca aggaggaagt agcaaaaatt aggacgctgg aatatcctat gttgtagcaa 540  
tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaattc 600  
ta 602

<210> 768  
<211> 671  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(671)  
<223> n=A,T,C or G

<400> 768  
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tcgcggcneg cgtcgacaaa aatactgcta aagtaatatt tttatagatg actatttgcc 120  
ttggggccag gaaaagcagc tggagttatt cacttagtac catttttaca tactaaactt 180  
gccttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240  
caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaac aggttttagg 300  
taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanat ttctgcctat 360  
tatgcagact gggcggcttt aaanntggta aaactatnaa ataccatac aatattttta 420  
nggggccccn ttatnaagct tttcaggcct tcccctttcc atagcattgg tgggatacaa 480  
gaaaccttta aacagcaacn agctatcnag gcccaaaaagg aaagtaattn tgatttttta 540  
nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600  
cttattaaac nttttttttt ttttaatttta ccccatggtc ntgatnttng ngcttccgcc 660  
canaaaatng n 671

<210> 769

<211> 877  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(877)  
 <223> n=A,T,C or G

<400> 769  
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 ngggggaatt cgcggccgc tgcacctcta tacctttgnt catgcagctt cctctgactg 120  
 ggtttgttct tcacttggt aacccctctt ttacttaagc acaccttgaa cattccctcc 180  
 ttccccattt ccccgagng cccctaattg acatacttct gaataacaca ggtggtattc 240  
 cttccttggt ggaacctcct ggaggaagag acagatgatt aacaaatcct tccatcaacc 300  
 cctttgacca tgacatcaac agtgctccaa attatgggg accgtattag cctatgtcta 360  
 tcttgatcag aatccttacc tccgtgtatt gaaattatct atttcgtgcc tgcctcttta 420  
 aagtcagggt ttgccttacc tattgtctaa caccatgcag taggtaacat gcagtaggaa 480  
 acatggcatt aaattatttg ggttcaaatc ccagttatgg tgtgtaaag cctaccaggc 540  
 cgtgaggcac ctgctaagca gggtgcacgc atcatttgaa ttcacaccac ccttttgcaa 600  
 tagaacagat aggcaacaga ggctcatttg ggctaaagga tttgatggag ggggaagtgcc 660  
 aggattccca ccaaggcctc anggccagg tccanggacc atgtctgttg tgacaactgg 720  
 agtgcatttc atatccctn ctctgngggg naaggtccct cncgnggaga acnnttaaaa 780  
 caatcatntc tngggggntt aatgcttctt nccccagtg ggtncactgc ngccacgagt 840  
 cccanccact agtcccangt ctgtcatgaa ccancct . 877

<210> 770  
 <211> 874  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(874)  
 <223> n=A,T,C or G

<400> 770  
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 gaattcgcgg cgcgctcgac cttttcaaag gttaacttat ttaattatca canngcaac 120  
 ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg cttaaataaat 180  
 tgcccaattt cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240  
 atctgtaacc ctcacgatgc cactactact tctttcagaa taccctttgc ctatctattc 300  
 tgttcctatg tcatcaaatt atacttactt taaaaagtat ttgtctttat tattttttaa 360  
 aaaacacagg gaagtatttc tgatcagggg cagtattggt tctgaaagac aagccagtgt 420  
 ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480  
 tgtagctatt acagaaccgc ttttagcaaat gtgttccatt aatcaagggtg atttataaca 540  
 aaatttcac ccaagtttga gtgctctgaa acataagcca aaatgttcgc aggggtctacc 600  
 cctctcgtgt gtcccttttt ttttagctatt tcagaagcac actggtgcaa tatttttacga 660  
 aatgagtttc ttccctttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720  
 natgaanac ctgctatttc atatcttgat tggagctgct taattaaatg accattttta 780  
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<210> 771

<211> 156  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(156)  
 <223> n=A,T,C or G

<400> 771  
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 ngtttttttg aanaattcat tgggtattta ttattc 156

<210> 772  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(586)  
 <223> n=A,T,C or G

<400> 772  
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 tgggtggaatt cgcgcccgcg tcgatcacia agtgcacaca agtccngnat ttattttatc 120  
 tccagatatg aaacttaccc ccagctatgg tcttctatct gttatttaat ttctaggcca 180  
 attttttcca cttgaatgac agtattttta ttcaaagtca ccttgcctaa ataccaagtc 240  
 atcaacttac cctcaaatta tatcctcatt cagaaaatct acatctatta atggtagcta 300  
 ttttatccct gcccctgct ttttcttttt atatttaatt aatttgntca tccagcaaat 360  
 gcttattgag caggtattgt aggctaaaca attctanact ttaaggggac acagnttgca 420  
 aaacaaaatc ctgccttgna tggatactta tgnnatggng ggatacagac aatcaacata 480  
 atgangngca tcatatataa tggttagnan aatgataagg gnttttgga aaaaaatgca 540  
 cccanccaan anggattggg aagtggangg ganggtcang ggangg 586

<210> 773  
 <211> 2983  
 <212> DNA  
 <213> Homo sapiens

<400> 773  
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 cgaatcctag catcgccaaa cacaccctgg tgggtgctcga cccgaggacg ccctcagacc 300  
 actacaactg gcaggcaacc cttcaaaatg agtctggcaa agaggtcaca gtggctgtca 360  
 ccagttcccc caatgccatc ctgggcaagt accaactaaa cgtgaaaact ggaaaccaca 420  
 tccttaagtc tgaagaaaac atcctatacc ttctcttcaa cccatggtgt aaagaggaca 480  
 tggttttcat gcctgatgag gacgagcgca aagagtacat cctcaatgac acgggctgcc 540  
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 aaaatgtcct ggactgctgc atttccctgc tgactgagag ctccctcaag cccacagata 660

ggagggaccc cgtgctggtg tgcagggcca tgtgtgctat gatgagcttt gagaaaggcc 720  
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&lt;210&gt; 774

&lt;211&gt; 3064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 774

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<210> 775

<211> 684

<212> PRT

<213> Homo sapiens

<400> 775

Met Met Asp Ala Ser Lys Glu Leu Gln Val Leu His Ile Asp Phe Leu

5

10

15





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Asp	Ser	Val	Trp	Asn 325	Phe	His	Val	Trp	Thr	Asp 330	Ala	Trp	Met	Lys 335	Arg
Pro	Asp	Leu	Pro	Lys 340	Gly	Tyr	Asp	Gly	Trp	Gln 345	Ala	Val	Asp 350	Ala	Thr
Pro	Gln	Glu	Arg	Ser 355	Gln	Gly	Val	Phe	Cys	Cys 360	Gly	Pro 365	Ser	Pro	Leu
Thr	Ala	Ile	Arg	Lys 370	Gly	Asp 375	Ile	Phe	Ile	Val 380	Tyr	Asp	Thr	Arg	Phe
Val 385	Phe	Ser	Glu	Val 390	Asn	Gly	Asp	Arg	Leu	Ile 395	Trp	Leu	Val	Lys	Met 400
Val	Asn	Gly	Gln	Glu 405	Glu	Leu	His	Val	Ile 410	Ser	Met	Glu	Thr	Thr 415	Ser
Ile	Gly	Lys	Asn 420	Ile	Ser	Thr	Lys	Ala 425	Val	Gly	Gln	Asp 430	Arg	Arg	Arg
Asp	Ile	Thr 435	Tyr	Glu	Tyr	Lys	Tyr 440	Pro	Glu	Gly	Ser	Ser 445	Glu	Glu	Arg
Gln	Val 450	Met	Asp	His	Ala	Phe 455	Leu	Leu	Leu	Ser	Ser 460	Glu	Arg	Glu	His
Arg 465	Arg	Pro	Val	Lys	Glu 470	Asn	Phe	Leu	His	Met 475	Ser	Val	Gln	Ser	Asp 480
Asp	Val	Leu	Leu	Gly 485	Asn	Ser	Val	Asn	Phe 490	Thr	Val	Ile	Leu	Lys 495	Arg
Lys	Thr	Ala	Ala 500	Leu	Gln	Asn	Val	Asn 505	Ile	Leu	Gly	Ser	Phe 510	Glu	Leu
Gln	Leu	Tyr 515	Thr	Gly	Lys	Lys	Met 520	Ala	Lys	Leu	Cys	Asp 525	Leu	Asn	Lys
Thr	Ser 530	Gln	Ile	Gln	Gly	Gln	Val 535	Ser	Glu	Val	Thr 540	Leu	Thr	Leu	Asp
Ser 545	Lys	Thr	Tyr	Ile	Asn 550	Ser	Leu	Ala	Ile	Leu 555	Asp	Asp	Glu	Pro	Val 560
Ile	Arg	Gly	Phe	Ile 565	Ile	Ala	Glu	Ile	Val 570	Glu	Ser	Lys	Glu	Ile 575	Met
Ala	Ser	Glu	Val 580	Phe	Thr	Ser	Phe	Gln 585	Tyr	Pro	Glu	Phe	Ser 590	Ile	Glu
Leu	Pro	Asn	Thr	Gly	Arg	Ile	Gly	Gln	Leu	Leu	Val	Cys	Asn	Cys	Ile

595                      600                      605  
 Phe Lys Asn Thr Leu Ala Ile Pro Leu Thr Asp Val Lys Phe Ser Leu  
     610                      615                      620  
 Glu Ser Leu Gly Ile Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val  
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Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala 705	710	715
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Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val 755	760	765
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Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile	835		840		845
Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu	850		855		860
Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu	865		870		875
Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr	885		890		895
Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly	900		905		910
Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys	915		920		925
Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu	930		935		940
Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile	945		950		955
Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr	965		970		975
Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu	980		985		990
Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val	995		1000		1005
Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys	1010		1015		1020
Lys Glu Lys Asn Met Glu Ser Ser Val Cys Cys Phe Lys Asn Glu Asp	1025		1030		1035
Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val	1045		1050		1055
Lys Ile Asn Thr Lys Ala Asn Asp Thr Ser Glu Glu Met Arg His Arg	1060		1065		1070
Phe Arg Gln Leu Asp Thr Lys Leu Asn Asp Leu Lys Gly Leu Leu Lys	1075		1080		1085
Glu Ile Ala Asn Lys Ile Lys					

TOPT-64765260

1095

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Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser  
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<400> 783  
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<400> 784  
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<400> 786  
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<210> 788  
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 <212> DNA  
 <213> Homo sapiens

<400> 788  
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<210> 789  
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 <212> DNA  
 <213> Homo sapiens

<400> 789  
 catccgcagt ggggtgctgtc agccgcacac tgtttccaga actcc 45

<210> 790  
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<210> 791  
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 <212> DNA  
 <213> Homo sapiens

<400> 791  
 aacgaattgt tctgctcggg cgtcctggtg catccgcagt ggggtg 45

<210> 792  
 <211> 45  
 <212> DNA  
 <213> Homo sapiens

<400> 792  
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<210> 793  
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<400> 793



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<210> 807  
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 <212> PRT  
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<400> 807  
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                           5                          10                          15

<210> 808  
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 <212> PRT  
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 Ala Leu Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val  
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<210> 809  
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 Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe Cys  
                           5                          10                          15

Ser

<210> 810  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 810  
 Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu

5

10

15

<210> 811  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 811  
 Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser  
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<210> 812  
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 <212> PRT  
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<400> 812  
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser  
                   5                  10                  15

<210> 813  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 813  
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
                   5                  10                  15

<210> 814  
 <211> 15  
 <212> PRT  
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<400> 814  
 Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu  
                   5                  10                  15

<210> 815  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 815  
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<210> 816  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

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 ccgctcgagt ccacccaag cttcacagg

29

<210> 817  
 <211> 1959  
 <212> DNA  
 <213> Homo sapiens

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 aagaaacgag aatgtgtctt ctttaccaaa gattccaagg ccacggagaa tgtgtgcaag 180  
 tgtggctatg ccagagcca gcacatggaa ggcaccaga tcaaccaaag tgagaaatgg 240  
 aactacaaga aacacaccaa ggaatttcct accgacgcct ttggggatat tcagtttgag 300  
 aactagggga agaaaggga gtatatacgt ctgtcctgcg acacggacgc ggaaatcctt 360  
 tacgagctgc tgaccagca ctggcacctg aaaacaccca acctggctcat ttctgtgacc 420  
 gggggcgcca agaacttcgc cctgaagccg cgcatgcgca agatcttcag ccggctcatc 480  
 tacatcgcgc agtccaaagg tgcttgatt ctacgggag gcacccatta tggcctgatg 540  
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 tgcgatgctg agggctattt ttagcccag taccttatgg atgacttcac aagagatcca 720  
 ctgtatatcc tggacaacaa ccacacacat ttgtgtctcg tggacaatgg ctgtcatgga 780  
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 gctgctgggg agtccgagga gctggctaag gagtacgaga cccgggctgt tgagctgttc 1860  
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 gcttgggggtg gactcgagca ccaccaccac caccactga 1959

<210> 818  
 <211> 652

<213> Homo sapiens

Met Arg Asn Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr  
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Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu  
20 25 30

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe  
35 40 45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala  
50 55 60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp  
65 70 75 80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp  
85 90 95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser  
100 105 110

Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp  
115 120 125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys  
130 135 140

Asn	Phe	Ala	Leu	Lys	Pro	Arg	Met	Arg	Lys	Ile	Phe	Ser	Arg	Leu	Ile
145					150					155					160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His  
165 170 175

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile  
180 185 190

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp  
195 200 205

Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu  
210 215 220

Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro  
225 230 235 240

Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn  
245 250 255

Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu  
260 265 270

Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly  
 275 280 285  
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu  
 290 295 300  
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val  
 305 310 315 320  
 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val  
 325 330 335  
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe  
 340 345 350  
 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp  
 355 360 365  
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val  
 370 375 380  
 Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser  
 385 390 395 400  
 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn  
 405 410 415  
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu  
 420 425 430  
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp  
 435 440 445  
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe  
 450 455 460  
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr  
 465 470 475 480  
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val  
 485 490 495  
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu  
 500 505 510  
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys  
 515 520 525  
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val  
 530 535 540  
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile  
 545 550 555 560



Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg  
                   565                  570                  575  
 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu  
                   580                  585                  590  
 Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu  
                   595                  600                  605  
 Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr  
                   610                  615                  620  
 Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu  
                   625                  630                  635                  640  
 Ala Trp Gly Gly Leu Glu His His His His His His  
                   645                  650

<210> 819  
 <211> 132  
 <212> PRT  
 <213> Homo sapien

<400> 819  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
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 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser  
                   20                  25                  30  
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
                   35                  40                  45  
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
                   50                  55                  60  
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
 65                  70                  75                  80  
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
                   85                  90                  95  
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
                   100                  105                  110  
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
                   115                  120                  125  
 Gly Pro Pro Ala  
 130

<210> 820  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 820

ggggaattca tgatccggga gaaatttgcc cactgc

36

<210> 821

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 821

gggctcagat caggagtttg agaccagcct ggc

33

<210> 822

<211> 675

<212> DNA

<213> Homo sapiens

<400> 822

atgcatcacc	atcaccatca	cacggccgcg	tccgataact	tccagctgtc	ccaggggtggg	60
cagggattcg	ccattccgat	cgggcaggcg	atggcgatcg	cgggccagat	caagcttccc	120
accgttcata	tcgggectac	cgccttcctc	ggcttgggtg	ttgtcgacaa	caacggcaac	180
ggcgacgag	tccaacgcgt	ggtcgggagc	gctccggcgg	caagtctcgg	catctccacc	240
ggcgacgtga	tcaccgcggt	cgacggcgct	ccgatcaact	cggccaccgc	gatggcggac	300
ggccttaacg	ggcatcatcc	cggtgacgtc	atctcggtga	cctggcaaac	caagtcgggc	360
ggcacgcgta	cagggaaact	gacattggcc	gagggacccc	cggccgaatt	catgatccgg	420
gagaaatttg	cccactgcac	cgtgctaacc	attgcacaca	gattgaacac	cattattgac	480
agcgacaaga	taatggtttt	agattcagga	agactgaaag	aatatgatga	gccgtatgtt	540
ttgctgcaaa	ataaagagag	cctattttac	aagatgggtg	aacaactggg	caaggcagaa	600
gccgctgccc	tactgaaac	agcaaaacag	agatgggggt	tcaccatgtt	ggccaggctg	660
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<210> 823

<211> 291

<212> DNA

<213> Homo sapiens

<400> 823

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accattattg	acagcgacaa	gataatgggt	ttagattcag	gaagactgaa	agaatatgat	120
gagccgtatg	ttttgctgca	aaataaagag	agcctatttt	acaagatggg	gcaacaactg	180
ggcaaggcag	aagccgctgc	cctcactgaa	acagcaaaac	agagatgggg	tttcaccatg	240
ttggccaggc	tggtctcaaa	ctccctcgag	caccaccacc	accaccactg	a	291

<210> 824

<211> 1074

<212> DNA



His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp  
 145 150 155 160  
 Ser Asp Lys Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp  
 165 170 175  
 Glu Pro Tyr Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met  
 180 185 190  
 Val Gln Gln Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala  
 195 200 205  
 Lys Gln Arg Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser  
 210 215 220

<210> 826  
 <211> 357  
 <212> PRT  
 <213> Homo sapiens

<400> 826  
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 Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln  
 20 25 30  
 Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala  
 35 40 45  
 Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe  
 50 55 60  
 Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala  
 65 70 75 80  
 Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser  
 85 90 95  
 His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln  
 100 105 110  
 Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys  
 115 120 125  
 Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu  
 130 135 140  
 Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly

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<210> 827
<211> 96
<212> PRT
<213> Homo sapiens
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Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
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His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp
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<220>

<223> PCR primer

<400> 831  
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34

<210> 832  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer

<400> 832  
gttgaattca tgcacgggcc ccaggtg

27

<210> 833  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer

<400> 833  
cccctcgagt cactatgggtc tgcctcttga

30

<210> 834  
<211> 915  
<212> DNA  
<213> Homo sapiens

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cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
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gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360  
ggcacgcgta caggaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420  
ccccaggtgc tggcacgctg ctccgagtg gcttgtcctg ccttggctgc cacctctcgg 480  
ggggtgcgtc tggagggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540  
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600  
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660  
gcgagtggag ttggtggctg tgccccagc tcctggcgcg ccctcgcaga ggtgactggg 720  
tgctcttttg gccctcttgg ccttgcccag catgcacaag cctcagtgct actactgtgc 780  
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaagggt gtatgctgcc 840  
tttgggggct ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900  
agaggcagac catag 915

<210> 835

<211> 304  
 <212> PRT  
 <213> Homo sapiens

<400> 835

Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu
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Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala
			20					25					30		
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala
		35					40					45			
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val
	50					55					60				
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr
	65				70					75					80
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr
				85					90					95	
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser
			100					105					110		
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
		115					120					125			
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	His	Gly	Pro	Gln	Val	Leu
		130				135					140				
Ala	Arg	Cys	Ser	Glu	Cys	Ala	Cys	Pro	Ala	Leu	Ala	Ala	Thr	Ser	Ala
	145				150					155					160
Gly	Val	Arg	Leu	Glu	Gly	Val	Asp	Arg	Pro	Pro	Thr	Leu	Pro	Ser	Gln
			165						170					175	
Gly	Ser	Gly	Trp	Pro	Cys	Ser	His	Ser	Leu	Ser	Gly	Cys	His	Leu	Met
			180					185					190		
Ala	Asp	Gly	Ala	Lys	Ala	Leu	Gly	Lys	Ala	Asp	Gly	Pro	Trp	Pro	Tyr
		195					200					205			
Leu	Phe	Val	Arg	Arg	Thr	Asp	Val	Pro	Cys	Pro	Ala	Ala	Ser	Glu	Val
	210					215					220				
Gly	Gly	Cys	Ala	Pro	Ser	Ser	Trp	Arg	Ala	Leu	Ala	Glu	Val	Thr	Gly
	225				230					235					240
Cys	Ser	Leu	Gly	Pro	Leu	Gly	Leu	Ala	Gln	His	Ala	Gln	Ala	Ser	Val
				245					250					255	
Leu	Leu	Leu	Cys	Tyr	Lys	Trp	Ser	His	Ile	Gly	Glu	Thr	Ser	Ser	His



260	265	270
Leu Arg Ser Lys Val Tyr Ala	Ala Phe Gly Gly Ser Ser	Pro Cys Leu
275	280	285
Lys Gly Leu Met Ser Leu Trp	Ala Ser Trp Leu Ser Arg Gly Arg	Pro
290	295	300

<210> 836  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 836  
 cgaagtcacg tggaggccag cctc

24

<210> 837  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 837  
 cctgaccgaa ttcattaact ggcctggac

29

<210> 838  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(166)  
 <223> Xaa = Any Amino Acid

<400> 838  
 Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg  
 1 5 10 15  
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
 20 25 30  
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser  
 35 40 45  
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly  
 50 55 60  
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val

65		70		75		80
Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp Pro						
	85		90		95	
Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Xaa Gln Xaa						
	100		105		110	
Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr						
	115		120		125	
Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val Gly						
	130		135		140	
Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile Glu						
	145		150		155	
Lys Thr Val Gln Ala Ser					160	
	165					

&lt;210&gt; 839

&lt;211&gt; 504

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(504)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 839

atggggccatc atcatcatca tcacgtggag gccagcctct ccgtacggca cccagagtac	60
aacagaccct tgctcgctaa cgacctcatg ctcacaaagt tggacgaatc cgtgtccgag	120
tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcggg gaactcttgc	180
ctcgtttctg gctggggtct gctggcgaac ggcagaatgc ctaccgtgct gcagtgcgtg	240
aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgacccgct gtaccacccc	300
agcatgttct gcgcccggcg agggcaanac cagaangact cctgcaacgg tgactctggg	360
gggcccctga tctgcaacgg gtacttgacg ggccttgtgt ctttcggaaa agccccgtgt	420
ggccaagtgg gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag	480
aaaaccgtcc aggccagtta atga	504

&lt;210&gt; 840

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 840

ctcagggttc cggagccgcg g 21

&lt;210&gt; 841

&lt;211&gt; 35

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

<400> 841  
ctatagaatt cattacaaa aagctgggct ccagc

35

<210> 842  
<211> 241  
<212> PRT  
<213> Homo sapiens

<400> 842  
Met Gln His His His His His His Leu Arg Val Pro Glu Pro Arg Pro  
1 5 10 15  
Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro  
20 25 30  
Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg  
35 40 45  
Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu  
50 55 60  
Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn  
65 70 75 80  
Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr  
85 90 95  
Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp  
100 105 110  
Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro Lys  
115 120 125  
Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile  
130 135 140  
Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu  
145 150 155 160  
Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys  
165 170 175  
Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser  
180 185 190  
Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys  
195 200 205  
Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr  
210 215 220  
Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe  
225 230 235 240  
Trp

<210> 843  
<211> 729  
<212> DNA  
<213> Homo sapiens

<400> 843  
atgcagcatc accaccatca ccacctcagg gttccggagc cgcgggcccg ggaggcgaaa 60  
gcggaggggg ccgcgcgcgc gaccccgctc aagccgctca cgtccttct catccaggac 120  
atcctgcggg acggcgcgca gcggaaggc ggccgcacga gcagccagag acagcgcgac 180  
ccggagcccg agccagagcc agagccagag ggaggacgca gccgcgcccg ggcgcagaaac 240

```
<210> 844
<211> 27
<212> DNA
<213> Artificial Sequence
```

<400> 844  
ctactaagcg ctggagtgag ggatcag 27

<220>  
<223> PCR primer

<400> 845  
catcgagaat tcaactactct ctgactagat gtc 33

```
<210> 846
<211> 161
<212> PRT
<213> Homo sapiens
```

<400> 846															
Met	Gln	His	His	His	His	His	His	Ala	Gly	Val	Arg	Asp	Gln	Gly	Gln
1				5					10					15	
Gly	Ala	Arg	Trp	Pro	His	Thr	Gly	Lys	Arg	Gly	Pro	Leu	Leu	Gln	Gly
			20					25					30		
Leu	Thr	Trp	Ala	Thr	Gly	Gly	His	Cys	Phe	Ser	Ser	Glu	Glu	Ser	Gly
		35					40					45			
Ala	Val	Asp	Gly	Ala	Gly	Gln	Lys	Lys	Asp	Arg	Ala	Trp	Leu	Arg	Cys
	50					55					60				
Pro	Glu	Ala	Val	Ala	Gly	Phe	Pro	Leu	Gly	Ser	Asp	Cys	Arg	Glu	Gly
65					70					75				80	
Gly	Arg	Gln	Gly	Cys	Gly	Gly	Ser	Asp	Asp	Glu	Asp	Asp	Leu	Gly	Val
				85					90					95	
Ala	Pro	Gly	Leu	Ala	Pro	Ala	Trp	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Gln

100 105 110  
 Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro  
 115 120 125  
 Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His  
 130 135 140  
 Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg  
 145 150 155 160  
 Glu

<210> 847  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<400> 847  
 atgcagcatc accaccatca ccacgctgga gtgagggatc aggggcaggg cgcgagatgg 60  
 cctcacacag ggaagagagg gccctcctg cagggcctca cctggggccac aggaggacac 120  
 tgcttttcct ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc 180  
 tggtcaggt gtccagaggc tgcgctggc ttccctttgg gatcagactg caggagagga 240  
 gggcggcagg gttgtggggg gagtgacgat gaggatgacc tgggggtggc tccaggcctt 300  
 gccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc 360  
 tccactccat cctccatctg gctcagtggt gtcattctga tcaactgaact gaccataccc 420  
 agccctgccc acggccctcc atgggtcccc aatgccctgg agagggggaca tctagtcaga 480  
 gagtagtga 489

<210> 848  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 848  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser  
 20 25 30  
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly  
 35 40 45  
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val  
 50 55 60  
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val  
 65 70 75 80  
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala  
 85 90 95  
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp  
 100 105 110  
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu  
 115 120 125  
 Gly Pro Pro Ala  
 130

<210> 849  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 849  
 ggggaattca tcacctatgt gccgcctctg c 31

<210> 850  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 850  
 gggctcgagt cactcgccca cgaaatccgt gtaaacacagc 40

<210> 851  
 <211> 1203  
 <212> DNA  
 <213> Homo sapiens

<400> 851  
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60  
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcgt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtccggc 360  
 ggcacgcgta cagggaaagt gacattggcc gagggacccc cggccgaatt catcacctat 420  
 gtgcgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480  
 attggtccag tgctgggct ggtctgtgtc ccgtcctag gctcagccag tgaccactgg 540  
 cgtggacgct atggccgccg ccggcccttc atctgggcac tgtccttggg catcctgctg 600  
 agcctctttc tcatcccaag ggccggctgg ctacgaggc tgctgtgccc ggatcccagg 660  
 cccctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720  
 tgcttcactc cactggaggc cctgctctct gacctcttc gggacccgga ccactgtcgc 780  
 caggcctact ctgtctatgc cttcatgatc agtcttgggg gctgcctggg ctacctcctg 840  
 cctgccattg actgggacac cagtgcctg gccccctacc tgggcaccca ggaggagtgc 900  
 ctctttggcc tgctcaccct catcttcctc acctgcgtag cagccacact gctggtggct 960  
 gaggaggcag cgctgggccc caccgagcca gcagaaggc tgctcgcccc ctcttgtcg 1020  
 cccactgct gtccatgccg ggcccgttg gctttccgga acctgggcgc cctgcttccc 1080  
 cggctgcacc agctgtgctg ccgcatgcc cgcacctgc gccggctctt cgtggctgag 1140  
 ctgtgcagct ggatggcact catgaccttc acgctgtttt acacggattt cgtgggcgag 1200  
 tga 1203

<210> 852  
 <211> 400  
 <212> PRT



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<400> 855
Ala Ser Ala Cys Asp Val Ser Val Arg Val
          5          10
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<210> 856  
 <211> 30  
 <212> DNA  
 <213> Homo sapiens

<400> 856  
 gcctctgcct gtgatgtctc cgtacgtgtg

30

<210> 857  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 857  
 Ala Ser Ala Cys Asp Val Ser Val Arg  
 1 5

<210> 858  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 858  
 Ser Ala Cys Asp Val Ser Val Arg Val  
 5

<210> 859  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens

<400> 859  
 tctgcctgtg atgtctccgt acgtgtg

27

<210> 860  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 860  
 Gly Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser  
 5 10 15

Ala Ser Asp

<210> 861  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 861

Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr  
                   5                  10                  15

Met Val Leu

&lt;210&gt; 862

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 862

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
                   5                  10                  15

Gln Leu Leu

&lt;210&gt; 863

&lt;211&gt; 57

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(57)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 863

ggnathggnc cngtnytngg nytngtntgy gtnccnytny tnggnwsngc nwsngay 57

&lt;210&gt; 864

&lt;211&gt; 57

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(57)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 864

gtncncncny tnytnytnga rgtnggngtn gargaraart tyatgacnat ggtnytn 57

&lt;210&gt; 865

&lt;211&gt; 57

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> (1)...(57)

<223> n = A,T,C or G

<400> 865

atggtnccarm gnyntntgggt nwsnmgnytn ytnmgncaym gnaargcnca rytnytn 57

<210> 866

<211> 9

<212> PRT

<213> Homo sapiens

<400> 866

Val Leu Gln Cys Val Asn Val Ser Val  
1 5

<210> 867

<211> 9

<212> PRT

<213> Homo sapiens

<400> 867

Arg Met Pro Thr Val Leu Gln Cys Val  
1 5

<210> 868

<211> 9

<212> PRT

<213> Homo sapiens

<400> 868

Asn Leu Cys Lys Phe Thr Glu Trp Ile  
1 5

<210> 869

<211> 9

<212> PRT

<213> Homo sapiens

<400> 869

Met Leu Ile Lys Leu Asp Glu Ser Val  
1 5

<210> 870

<211> 9

<212> PRT

<213> Homo sapiens

<400> 870

Leu Leu Ala Asn Asp Leu Met Leu Ile  
1 5

<210> 871

<211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 871  
 Leu Leu Ala Asn Gly Arg Met Pro Thr Val  
 1 5 10

<210> 872  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 872  
 Leu Met Leu Ile Lys Leu Asp Glu Ser Val  
 1 5 10

<210> 873  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 873  
 Val Leu Gln Cys Val Asn Val Ser Val Val  
 1 5 10

<210> 874  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 874  
 Gly Leu Leu Ala Asn Gly Arg Met Pro Thr  
 1 5 10

<210> 875  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 875  
 Thr Val Leu Gln Cys Val Asn Val Ser Val  
 1 5 10

<210> 876  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 876  
 Gly Val Leu Val His Pro Gln Trp Val  
 1 5

<210> 877

Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr  
50 55 60

Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile  
 65 70 75 80  
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His  
 85 90 95  
 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu  
 100 105 110  
 Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu  
 115 120 125  
 Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly  
 130 135 140  
 Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr  
 145 150 155 160  
 Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala  
 165 170 175  
 Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu  
 180 185 190  
 Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp  
 195 200 205  
 Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile  
 210 215 220  
 Val Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser  
 225 230 235 240  
 Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys  
 245 250 255  
 Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe  
 260 265 270  
 Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro  
 275 280 285  
 Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe  
 290 295 300  
 Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile  
 305 310 315 320  
 Arg His Gly Trp Glu Asp Val Thr Lys Ile Asn Lys Thr Glu Ile Cys  
 325 330 335  
 Ser Gln Leu

<210> 880  
 <211> 2172  
 <212> DNA  
 <213> Homo sapiens

<400> 880  
 aaaattgaat attgagatac cattctttag tgttaccttt tttaccacaca tgtgtttctg 60  
 aaaatattgg aattttattc atcttaaaaa ttggaccggg ccttatttac catctttaat 120  
 ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaadc ttcagaaagt 180  
 tatatatcta ttttatttta tttttttgag acagagtctc gctgtgtcac ccaggctgga 240  
 gtgcggtgcc acaatcttgg ctactgcaa cctctgagtc ccaggttcaa gcgatactca 300  
 tgcctcggcc tcctgagtag ctgggactac aggcgtgcac caccacatct ggctaattctt 360  
 tttttgtatt ttttagtagag acgggggtttc actgtggtct ccatctcctg acctcgtgat 420  
 ccgctgcctc cccaaagtgc tgggattaca ggcattgagcc accgcacaca gctgggactg 480  
 ggtaatttat aaagaaaaga ggtttaatga ctacagttc cgcattggctg gagaggcctc 540  
 aggaacttta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatggtggc 600  
 aggagagaac gagtggaggg ggagactgcc acaaactttt tttttttgag acaagagtct 660  
 ggccctgttg cccaggctgg agtgcagtgg catgatctca gctcactgca acctctgcct 720  
 cacaggttca agcaattctc atgcctcagc ctcccgcata gctgggacca caggatgca 780  
 ccaccacacc tagctaattt ttgtagtttt agtagagatg gggctcact atgttgctca 840  
 ggctggctca aaactcctgg gctccagcaa tccgctgcc ttggcctccc aaagtgtggt 900  
 ggttacaggc ataagccacc acatccagcc tgccacatac ttttaacta tcaggtctca 960  
 tgagaactca tgcaactatca caagaatagc atggggaaaa tccccccat aatccaatca 1020  
 cctcccacca ggtctcctcc gacacgtggg attgggtggg gacacagagc caaaccgat 1080  
 cagatgctgc aggggctggg gacactgaga ccactcagac ctgggtgtctc tgtcactctt 1140  
 ctgggctctg tctgtctcca ggacctccct ccccttccat ggtatagaag gaaagtgtctg 1200  
 taaggtgcaa attgcacagg aactccttaa gacatacatc atccactcag cagtttttagg 1260  
 ttgcagcaa aatggagtgg aaggaaacaga aatttcctgt gcaacctctc ccgctgtctc 1320  
 cgccatatcg gcatcctgca tccagagtgg tggactgggt acaggctatg aacctacact 1380  
 gatgcggcac caccacccag agtccacggg ttatgttggg tcacatttac tcttgctgtg 1440  
 gtatggtcta taggtttgga cagatgtccg ataactcctt ttacattttg gcatccttgg 1500  
 gtagctcgtc ttgtaggaat ggacttgctt caaagtggag gcaggcagat ccttcagacg 1560  
 ggtatatgga gccctgtttt cagttgcttt tctaattctc tcttatcgtt tacctcaaaa 1620  
 tcttctgag gtctcgtctc cttttaaaat ccttgtctac tttgcagcat cactctgaca 1680  
 ctccattgat tcctcagcac ctactgacta cacggttagg agtgcaaggg tagaattcat 1740  
 gttttattca tctttgggtc tgtagcacc agcaaaagtgc tcagtaaatg cgcagtaatt 1800  
 gatttgacct ctgaacaaat acacactgta ctaagaatct acacaccgaa agacaaaaac 1860  
 aagacaaatt tgagtgtac aggtgtcacg cttggcatca cacatgtgcc tgtgtattcc 1920  
 tctaggtggg taccaggagc tctgccactg catgtccact agtgacgggt tcgctccacc 1980  
 accccagctg ggtagccgct gctctcacat aagggtcca attaaaattg ccaggaataa 2040  
 attccccggg actttgactt ctcaagagct aagaagggtt gctgagtatt ctggcatgat 2100  
 gtttggtgat caaacaactg ctggccaaaa atgatgagta tttccccctc ttgctgaaga 2160  
 tgtgctccat ac 2172

<210> 881  
 <211> 2455  
 <212> DNA  
 <213> Homo sapiens

<400> 881  
 cagcttaaaa atggtttctt gaaatcagtg attagcattc actcaccagt acccctacta 60  
 aggggtaggc actggtttgt actcctggga atacaggagt acaccagaat ttattttctgc 120

ttattgcttt tgttgcaaat gccgtggctt catctgagga attctagaat tcagagggtg 180  
 tagccctcca ctctgctgtc ttgtatctg ctctcattgc atccgtttta cctgcattct 240  
 gaaagatgtt tctcagggtt ttcttgacg attttcttct tttctgattc tgacaatgtt 300  
 ttaaatacatt gtactgtggt tatcatttct ctgcatttat tttacccatc ttcctttgta 360  
 acttgtccta ttgtctttta atttctgcct gttctttatg gctttcaact tcataaataa 420  
 catgttttct caaatctctt tgtgaattcc agagagggcc aggcacggtg gctcacatct 480  
 gtaatcccag cactttgggg aggtgagac ggggtgatca cttgaggtca ggagtttgag 540  
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&lt;210&gt; 882

&lt;211&gt; 2455

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 882

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&lt;210&gt; 883

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn  
 5 10 15

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln  
 20 25 30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu  
 35 40 45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala  
 50 55 60

&lt;210&gt; 884

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<400> 884
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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
          20                               25                      30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
          35                               40                      45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
          50                               55                      60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
          65                               70                      75                      80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
          85                               90                      95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
          100                               105                      110

Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
          115                               120                      125

Leu Leu Asn Tyr Gln Val Ser
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<210> 885
<211> 77
<212> PRT
<213> Homo sapiens
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<400> 885
Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
                    5                      10                      15
Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
                    20                      25                      30
Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
                    35                      40                      45
Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
                    50                      55                      60
Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
                    65                      70                      75

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<210> 886  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 886  
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
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 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
                           20                          25                          30  
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser  
                           35                          40                          45  
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
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<210> 887  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 887  
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
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 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                           20                          25                          30  
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                           35                          40                          45  
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
                           50                          55                          60  
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
                           65                          70                          75

<210> 888  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 888  
 Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp  
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 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu  
                           20                          25                          30  
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly

35

40

45

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp  
 50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys  
 65 70 75

&lt;210&gt; 889

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 889

Met Leu Leu His Ser Ser Leu Val Asn Arg Ala Arg Leu Cys Leu Lys  
 5 10 15

Asn Lys Gln Ile Asn Lys Gln Thr Asn Lys Thr Glu Arg Phe Cys Cys  
 20 25 30

Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln  
 35 40 45

Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val  
 50 55 60

Gly Gly Ser Phe Glu Val Arg Ser Leu Arg Ser Ala Trp Pro Thr Trp  
 65 70 75 80

&lt;210&gt; 890

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 890

Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro  
 5 10 15

Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr  
 20 25 30

Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr  
 35 40 45

Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro  
 50 55 60

Gly Pro Pro Ser Pro Ser Met Val  
 65 70

&lt;210&gt; 891

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<211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 891  
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln  
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 Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His  
                     20                    25                    30  
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro  
                     35                    40                    45  
 Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln  
                     50                    55                    60  
 Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu  
                     65                    70                    75

<210> 892  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 892  
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly  
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 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser  
                     20                    25                    30  
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser  
                     35                    40                    45  
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe  
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<210> 893  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 893  
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
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 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
                     20                    25                    30  
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
                     35                    40                    45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
 65 70 75

<210> 894  
 <211> 2479  
 <212> DNA  
 <213> Homo sapiens

<400> 894

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<212> PRT  
<213> Homo sapiens

<400> 895  
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Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val  
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Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys  
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Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val  
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Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys  
                    100                    105                    110  
  
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn  
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Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp  
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Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met  
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Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp  
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Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn  
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Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser  
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Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys  
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Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg  
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Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile  
 245 250 255  
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser  
 260 265 270  
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro  
 275 280 285  
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn  
 290 295 300  
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met  
 305 310 315 320  
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn  
 325 330 335  
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln  
 340 345 350  
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn  
 355 360 365  
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp  
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 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala  
 385 390 395 400  
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr  
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 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly  
 420 425 430  
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 435 440 445  
 Asn Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly  
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 465 470 475 480  
 Thr Asp Trp Ile Tyr Arg Gln Met Lys Ala Asn Gly  
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<210> 896  
 <211> 683  
 <212> DNA  
 <213> Homo sapiens





<400> 902  
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<210> 903  
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aaatgtgaac aacatctggg tcataacgct atgtattggg acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcca 240
agtcgcttct cacctgaatg cccaacagc tctcacttat tccttcacct acacacctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
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gccacactgg tgtgcctggc cacaggcttc taccctgacc acgtggagct gagctggtgg 540
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gtgctgatgg ccatggtcaa gagaaaggat ttctga 936
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<210> 904  
 <211> 834  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...()  
 <223> n = A,T,C or G

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<400> 904
atgtcacttt ctagcctgct naaggtgggc acagcttcac tgtggctagg acctggcatt 60
gccagaaga taactcaaac ccaaccagga atgttcgtgc aggaaaagga ggctgtgact 120
ctggactgca catatgacac cagtgatcaa agttatggtc tcttctggta caagcagccc 180
agcagtgggg aaatgatttt tcttatttat caggggtctt atgacgagca aaatgcaaca 240
gaaggtcgct actcattgaa tttccagaag gcaagaaaat ccgccaacct tgtcatctcc 300
gcttcacaac tgggggactc agcaatgtat ttctgtgcaa tgagagaggg cgcgggagga 360
ggaaacaaac tcacctttgg gacaggcact cagctaaaag tggaactcaa tatccagaac 420
cctgaccctg ccgtgtacca gctgagagac tctaaatcca gtgacaagtc tgtctgccta 480
ttcaccgatt ttgatttctc aacaaatgtg tcacaaagta aggattctga tgtgtatatc 540
acagacaaaa ctgtgctaga catgaggctt atggacttca agagcaacag tgtgtggccc 600
tgagagcaaa aatctgactt tgcatgtgca aacgccttca acaacagcat tattccagaa 660
gacaccttct tccccagccc agaaagttcc tgtgatgtca agctggctga gaaaagcttt 720
gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg aatcctcctc 780
```

834

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<220>  
<221> variant  
<222> (1)...(311)  
<223> Xaa = Any amino acid
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<400> 905																	
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				5					10					15			
Val	Pro	Met	Glu	Thr	Gly	Val	Thr	Gln	Thr	Pro	Arg	His	Leu	Val	Met		
			20					25					30				
Gly	Met	Thr	Asn	Lys	Lys	Ser	Leu	Lys	Cys	Glu	Gln	His	Leu	Gly	His		
		35					40					45					
Asn	Ala	Met	Tyr	Trp	Tyr	Lys	Gln	Ser	Ala	Lys	Lys	Pro	Leu	Glu	Leu		
	50					55					60						
Met	Phe	Val	Tyr	Ser	Leu	Glu	Glu	Arg	Val	Glu	Asn	Asn	Ser	Val	Pro		
	65				70					75					80		
Ser	Arg	Phe	Ser	Pro	Glu	Cys	Pro	Asn	Ser	Ser	His	Leu	Phe	Leu	His		
				85					90					95			
Leu	His	Thr	Leu	Gln	Pro	Glu	Asp	Ser	Ala	Leu	Tyr	Leu	Cys	Ala	Ser		
			100					105					110				
Ser	Gln	Asp	Arg	Thr	Ser	Ser	Ser	Tyr	Glu	Gln	Tyr	Phe	Gly	Pro	Gly		
		115					120					125					
Thr	Arg	Leu	Thr	Val	Thr	Glu	Asp	Leu	Lys	Asn	Val	Phe	Pro	Pro	Glu		
						135					140						
Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln	Lys		
	145				150					155					160		
Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu		
				165					170					175			
Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr		
			180					185					190				
Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr		
		195					200					205					
Cys	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro		
	210					215					220						

Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn  
225 230 235 240

Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser  
245 250 255

Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr  
260 265 270

Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly  
275 280 285

Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala  
290 295 300

Met Val Lys Arg Lys Asp Phe  
305 310

<210> 906

<211> 277

<212> PRT

<213> Homo sapiens

<400> 906

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu  
5 10 15

Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe  
20 25 30

Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser  
35 40 45

Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu  
50 55 60

Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr  
65 70 75 80

Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn  
85 90 95

Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys  
100 105 110

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr  
115 120 125

Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala  
130 135 140

Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu

```
<210> 907
<211> 1536
<212> DNA
<213> Homo sapiens
```

<400>	907						
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atgtttcagc	acctgatgca	gaagcggaag	cacaccaggt	ggacgtatgg	accactgacc	180	
tcgactctct	atgacctcac	agagatcgac	tcttcagggg	atgagcagtc	cctgtggaa	240	
cttatcatca	ccaccaagaa	gcgggaggtc	cgccagatcc	tggaccagac	gccggtgaag	300	
gagctggtga	gcctcaagt	gaagcgggtac	gggcggccgt	acttctgcat	gctgggtgcc	360	
atatatctgc	tgtacatcat	ctgcttcacc	atgtgctgca	tctaccgcc	cctcaagccc	420	
aggaccaata	accgcacgag	cccccgggac	aacacctct	tacagcagaa	gctacttcag	480	
gaagcctaca	tgacctctaa	ggacgatata	cggctggtcg	gggagctgg	gactgtcatt	540	
ggggctatca	tcatcctgct	ggtagagggt	ccagacatct	tcagaatggg	ggtcactcgc	600	
ttctttggac	agaccatcct	tgggggcccc	ttccatgtcc	tcatcatcac	ctatgccttc	660	
atggtgctgg	tgaccatggt	gatgcggctc	atcagtgcc	gcggggaggt	ggtacccatg	720	
tcttttgac	tcgtgctggg	ctggtgcaac	gtcatgtact	tcgcccagg	attccagatg	780	
ctaggccct	tcaccaatcat	gattcagaag	atgatttttg	gcgacctgat	gcgattctgc	840	
tggctgatgg	ctgtggtcat	cctgggcttt	gcttcagcct	tctatatcat	cttcacagaca	900	
gaggaccccc	aggagctagg	ccacttctac	gactacccca	tggccctggt	cagcaccttc	960	
gagctgttcc	ttaccatcat	cgatggcccc	gccaaactaca	acgtggacct	gcccttcattg	1020	
tacagcatca	cctatctgtc	ctttgccatc	atcgccacac	tgtctcatgct	caacctcctc	1080	
attgccatga	tgggcgcacac	tctactggcga	gtggcccatg	agcgggatga	gctgtggagg	1140	
gccagattg	tggccaccac	ggtgatgctg	gagcgggaagc	tgctcgtctg	cctgtggcct	1200	
cgctccggga	tctgcggacg	ggagtatggc	ctgggagacc	gctggttct	gcgggtggaa	1260	

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<210> 908
<211> 1533
<212> DNA
<213> Homo sapiens
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<210> 909
<211> 511
<212> PRT
<213> Homo sapiens
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<400> 909
Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
          5                      10                      15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
          20                      25                      30

Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
          35                      40                      45

```

Arg	Lys	His	Thr	Gln	Trp	Thr	Tyr	Gly	Pro	Leu	Thr	Ser	Thr	Leu	Tyr	50	55	60
Asp	Leu	Thr	Glu	Ile	Asp	Ser	Ser	Gly	Asp	Glu	Gln	Ser	Leu	Leu	Glu	65	70	75
Leu	Ile	Ile	Thr	Thr	Lys	Lys	Arg	Glu	Ala	Arg	Gln	Ile	Leu	Asp	Gln	85	90	95
Thr	Pro	Val	Lys	Glu	Leu	Val	Ser	Leu	Lys	Trp	Lys	Arg	Tyr	Gly	Arg	100	105	110
Pro	Tyr	Phe	Cys	Met	Leu	Gly	Ala	Ile	Tyr	Leu	Leu	Tyr	Ile	Ile	Cys	115	120	125
Phe	Thr	Met	Cys	Cys	Ile	Tyr	Arg	Pro	Leu	Lys	Pro	Arg	Thr	Asn	Asn	130	135	140
Arg	Thr	Ser	Pro	Arg	Asp	Asn	Thr	Leu	Leu	Gln	Gln	Lys	Leu	Leu	Gln	145	150	155
Glu	Ala	Tyr	Met	Thr	Pro	Lys	Asp	Asp	Ile	Arg	Leu	Val	Gly	Glu	Leu	165	170	175
Val	Thr	Val	Ile	Gly	Ala	Ile	Ile	Ile	Leu	Leu	Val	Glu	Val	Pro	Asp	180	185	190
Ile	Phe	Arg	Met	Gly	Val	Thr	Arg	Phe	Phe	Gly	Gln	Thr	Ile	Leu	Gly	195	200	205
Gly	Pro	Phe	His	Val	Leu	Ile	Ile	Thr	Tyr	Ala	Phe	Met	Val	Leu	Val	210	215	220
Thr	Met	Val	Met	Arg	Leu	Ile	Ser	Ala	Ser	Gly	Glu	Val	Val	Pro	Met	225	230	235
Ser	Phe	Ala	Leu	Val	Leu	Gly	Trp	Cys	Asn	Val	Met	Tyr	Phe	Ala	Arg	245	250	255
Gly	Phe	Gln	Met	Leu	Gly	Pro	Phe	Thr	Ile	Met	Ile	Gln	Lys	Met	Ile	260	265	270
Phe	Gly	Asp	Leu	Met	Arg	Phe	Cys	Trp	Leu	Met	Ala	Val	Val	Ile	Leu	275	280	285
Gly	Phe	Ala	Ser	Ala	Phe	Tyr	Ile	Ile	Phe	Gln	Thr	Glu	Asp	Pro	Glu	290	295	300
Glu	Leu	Gly	His	Phe	Tyr	Asp	Tyr	Pro	Met	Ala	Leu	Phe	Ser	Thr	Phe	305	310	315
Glu	Leu	Phe	Leu	Thr	Ile	Ile	Asp	Gly	Pro	Ala	Asn	Tyr	Asn	Val	Asp	325	330	335



Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala  
340 345 350

Thr Leu Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His  
355 360 365

Trp Arg Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val  
370 375 380

Ala Thr Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro  
385 390 395 400

Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe  
405 410 415

Leu Arg Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg  
420 425 430

Tyr Ala Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp  
435 440 445

Ser Val Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser  
450 455 460

Leu Pro Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn  
465 470 475 480

Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile  
485 490 495

Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile  
500 505 510

<210> 910

<211> 134

<212> PRT

<213> Homo sapiens

<400> 910

<400> 910  
Met Tyr Asn Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln  
5 10 15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu  
20 25 30

Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys  
35 40 45

Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr  
50 55 60

Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu  
65 70 75 80

Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln  
85 90 95

Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg  
100 105 110

Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys  
115 120 125

Phe Thr Met Cys Cys Ile  
130

<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg  
5 10 15

Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr  
20 25 30

Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly  
35 40 45

Ala Ile Ile Ile Leu Leu Val  
50 55

<210> 912

<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

Glu Val Pro Asp Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln  
5 10 15

Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe  
20 25 30

Met Val Leu Val Thr Met Val  
35

<210> 913

<211> 19

<212> PRT

<213> Homo sapiens

TOCTE: 040500

&lt;400&gt; 913

Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala  
                           5                          10                          15

Leu Val Leu

&lt;210&gt; 914

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 914

Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly  
                           5                          10                          15

Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg  
                           20                          25                          30

Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe  
                           35                          40                          45

Tyr Ile Ile Phe  
                   50

&lt;210&gt; 915

&lt;211&gt; 213

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 915

Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe Tyr Asp Tyr Pro Met  
                           5                          10                          15

Ala Leu Phe Ser Thr Phe Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro  
                           20                          25                          30

Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala  
                           35                          40                          45

Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala  
                           50                          55                          60

Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu  
                           65                          70                          75                          80

Trp Arg Ala Gln Ile Val Ala Thr Thr Val Met Leu Glu Arg Lys Leu  
                           85                          90                          95

Pro Arg Cys Leu Trp Pro Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly  
                           100                          105                          110

Leu Gly Asp Arg Trp Phe Leu Arg Val Glu Asp Arg Gln Asp Leu Asn  
115 120 125

Arg Gln Arg Ile Gln Arg Tyr Ala Gln Ala Phe His Thr Arg Gly Ser  
130 135 140

Glu Asp Leu Asp Lys Asp Ser Val Glu Lys Leu Glu Leu Gly Cys Pro  
145 150 155 160

Phe Ser Pro His Leu Ser Leu Pro Met Pro Ser Val Ser Arg Ser Thr  
165 170 175

Ser Arg Ser Ser Ala Asn Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg  
180 185 190

Arg Asp Leu Arg Gly Ile Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser  
195 200 205

Trp Glu Tyr Gln Ile  
210

<210> 916  
<211> 1302  
<212> DNA  
<213> Homo sapiens

<400> 916  
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ttcatcctaa taggcctccc tggtttagaa gaggtcagt tctggttggc cttcccattg 180  
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gagcacagcc tgcattgagcc catgtatata tttctttgca tgctttcagg cattgacatc 300  
ctcatctcca cctcatccat gcccaaatg ctggccatct tctggttcaa ttccactacc 360  
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catgccacag tacttacgtt gcctcgtgtc accaaaattg gtgtggctgc tgtgggtgcg 540  
ggggctgcac tgatggcacc ccttcctgtc ttcattcaagc agctgccctt ctgccgctcc 600  
aatatccttt cccattccta ctgcctacac caagatgtca tgaagctggc ctgtgatgat 660  
atccgggtca atgtcgtcta tggccttata gtcattcatc ccgccattgg cctggactca 720  
cttctcatct ccttctcata tctgcttatt ctttaagactg tgttgggctt gacacgtgaa 780  
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cccgctcatc tggccaatat ctatctgctg gttcctcctg tgctcaaccc aattgtctat 960  
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gattttaatg ttaacatttt ggaagacagt attcagaaaa aaaatttcct taataaaaaat 1140  
acaactcaga tccttcaaat atgaaactgg ttgggggaatc tccatttttt caatattatt 1200  
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ggttattact tttcatttta ccatgcagtc caaatctaaa ct 1302

<210> 917  
<211> 2061

<212> DNA  
<213> Homo sapiens

<400> 917  
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atatttgaag acagtattca gaaaaaaaaat ttccttaata aaaatacaac tcagatcctt 180  
caaatatgaa actggttggg gaatctccat tttttcaata ttattttctt ctttgttttc 240  
ttgtacata taattattaa taccctgact aggttgtggt tggaggggta ttacttttca 300  
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cagaatataa taaaatgaga taatctagct taaaactata acttcctctt cagaactccc 480  
aaccacattg gatctcagaa aaatgctgtc ttcaaatga cttctacaga gaagaaataa 540  
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aggaggtatt taatttcttc tcaactcatcc agtgttgtat ttaggaattt cctggcaaca 960  
gaactcatgg ctttaatccc actagctatt gcttattgtc ctggccaat tgccaattac 1020  
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atgtcatctc tgttcatcat tgactgctct ttgtcatca ttgaatcccc cagcaaagtg 1680  
cctagaacat aatagtgctt atgcttgaca ccggttattt ttcacaaac ctgattcctt 1740  
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tctggccatt acttccaatg tgagtggaa tgacatgtgc aatttctata cctggctcat 1860  
aaaaccctcc catgtgcagc ctttcatgtt gacattaaat gtgacttggg aagctatgtg 1920  
ttacacagag taaatcacca gaagcctgga tttctgaaaa aactgtgcag agccaaacct 1980  
ctgtcatttg caactccac ttgtatttgt acgaggcagt tggataagtg aaaaataaag 2040  
tactattgtg tcaagtctct g 2061

<210> 918  
<211> 957  
<212> DNA  
<213> Homo sapiens

<400> 918  
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